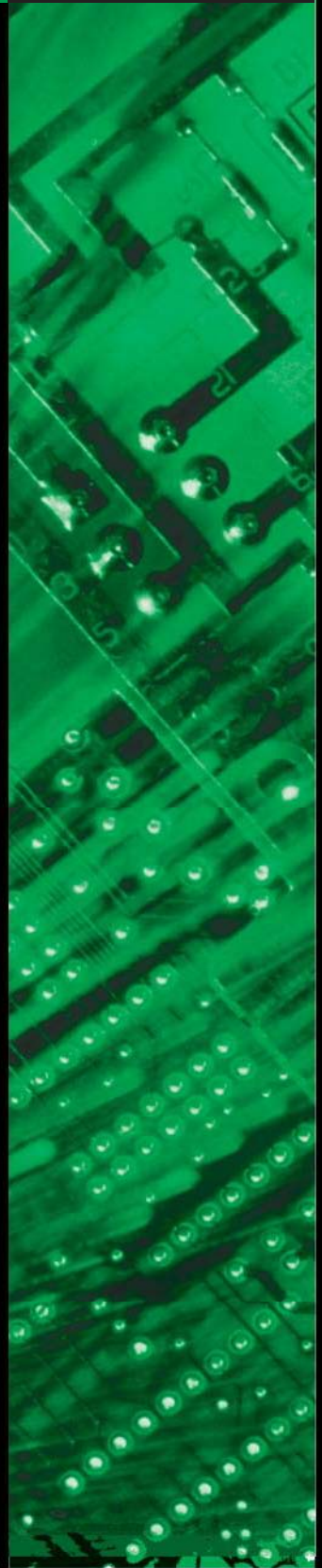


DC Inverter Multi Split

Models: M5MSX020 A/AR
M5MSX025 A/AR
M5MSX030 A/AR



Engineered for flexibility and performance.™

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This manual supercedes M5MSX-2007

Note : Installation and maintenance are to be performed only by qualified personnel who are familiar with local codes and regulations, and experienced with this type of equipment.

Caution : Sharp edges and coil surfaces are a potential injury hazard. Avoid contact with them.

Warning : Moving machinery and electrical power hazard. May cause severe personnel injury or death. Disconnect and lock off power before servicing equipment.

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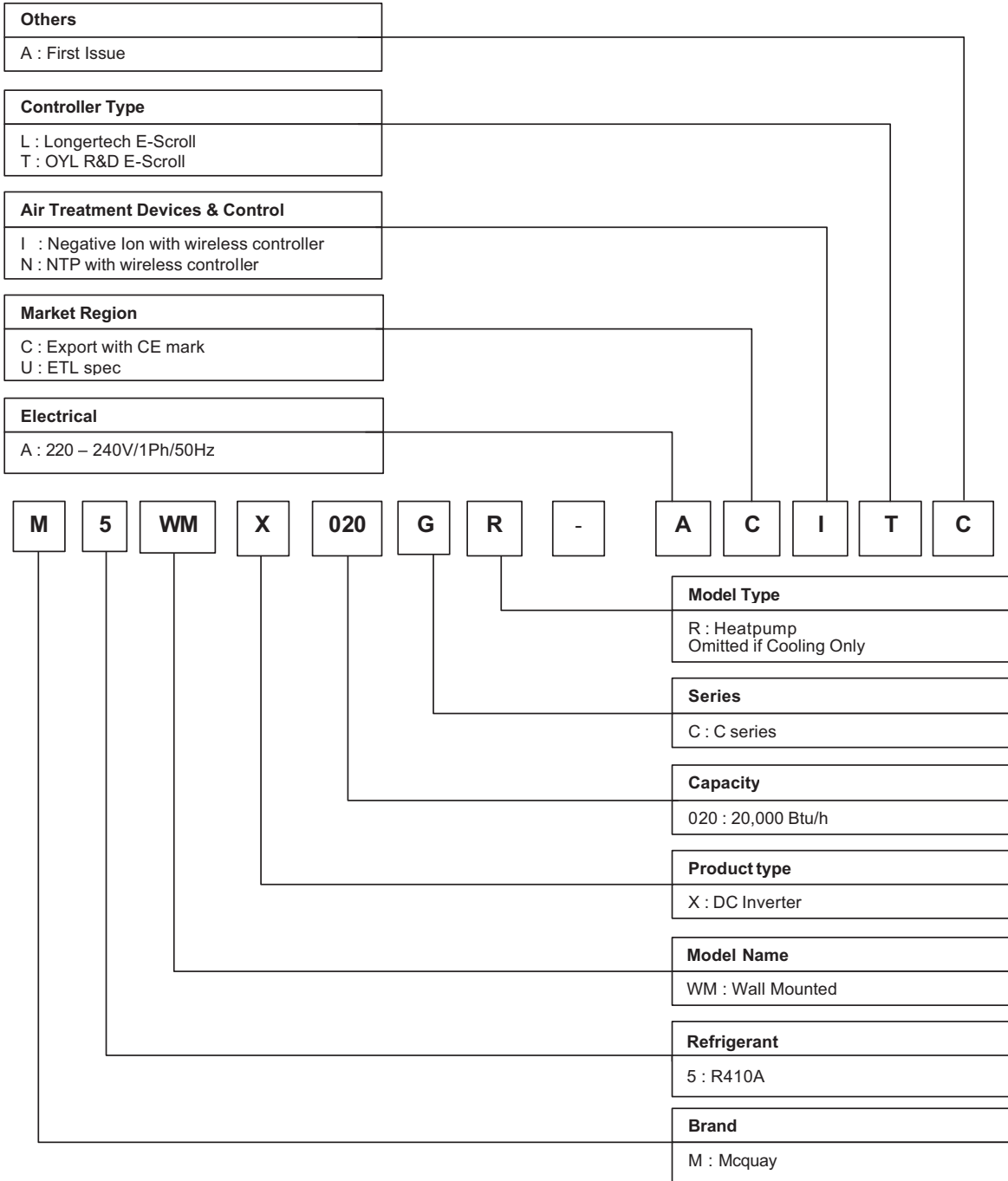
Bulletin illustrations cover the general appearance of McQuay International products at the time of publication.

We reserve the right to change design and construction specifications at any time without notice.

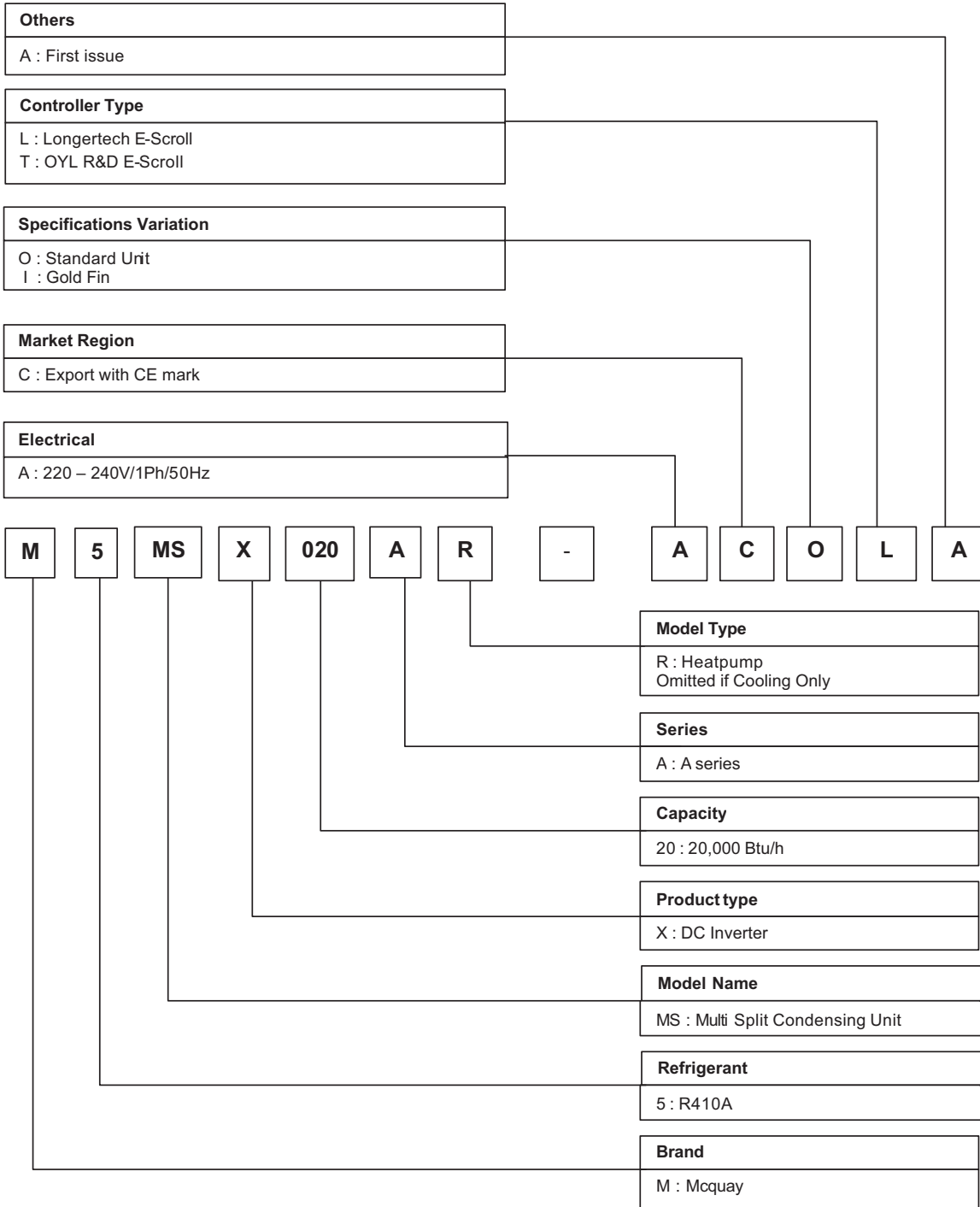


Nomenclature

Indoor



Outdoor



M5MSX-A/AR Product line-up

| | M5MSX | Nomenclature | Classification | | | | | | |
|--------------|-------|--------------|------------------------|------------|---------------------|----------------------|------------|----------------|-------------|
| | | | PCB | RF Control | Compressor | | Marking | | |
| | | | DC INVERTER (LJ DSCAA) | EXV | DC Inv. Twin Rotary | DC Inv. Scroll Comp. | CE Marking | W/O CE Marking | Drain Elbow |
| Cooling Only | 020A | ACOLA | X | X | | X | X | | X |
| | 025A | ACOLA | X | X | X | | X | | X |
| | 030A | ACOLA | X | X | X | | X | | X |
| Heat Pump | 020AR | ACOLA | X | X | | X | X | | X |
| | 025AR | ACOLA | X | X | X | | X | | X |
| | 030AR | ACOLA | X | X | X | | X | | X |

M5WMX-G/GR Product line-up

| | M5WMX | Nomenclature | Classification | | | | | | |
|--------------|-------|--------------|----------------|-------|----------|--------------|------------------|-----|---------|
| | | | Handset | PCB | | | Air Purification | | Marking |
| | | | G11 | VA2.0 | LJID 1.0 | Negative Ion | Nano Filter | NTP | CE |
| Cooling Only | 010G | ACITC | X | X | | X | X | | X |
| | 015G | ACITC | X | X | | X | X | | X |
| | 020G | ACITC | X | X | | X | X | | X |
| Heat Pump | 010GR | ACITC | X | X | | X | X | | X |
| | 015GR | ACITC | X | X | | X | X | | X |
| | 020GR | ACITC | X | X | | X | X | | X |

Features

Higher Energy Savings

The compressor in McQuay DC Multi Split Inverter is programmed to run at the optimum speed. The compressor speed is controlled by input frequency that varies according to the indoor load requirements. Once the indoor set temperature is achieved, the input frequency supply to the compressor will be reduced. Hence, less energy is required to maintain the unit operation and this will consume less energy.

Fast Cooling

During the unit start up, the inverter air-conditioner system takes a shorter period to achieve the set room temperature than conventional air-conditioner systems. Thus, the inverter system offers fast cooling features.

Low Starting Current

Taking advantage of the ability to modulate the compressor speed, inverter models are designed with “soft starter” feature. The compressor motor will not draw high current during start up.

Zero-Ozone Depleting Potential Refrigerant

Introducing the new type of refrigerant – R410A which is environmental friendly with Zero Ozone Depletion Potential (ODP = 0). R410A also provides the higher volumetric capacity and better refrigerating effect per unit of volume.

Advance Technology

The traditional conventional air conditioners repeat “the start” and “the stop” during the thermostat cycle off and causes the room temperature to be unstable. Incorporating fuzzy logic control into the McQuay DC Multi Split Inverter design enables greater flexibility in handling the system control.

This result in:

- Powerful, efficient and economical operation.
- Even room temperature control.
- Constant and quiet compressor operation.
- Enhanced system reliability and reduced maintenance costs.

Low Noise Operation

McQuay DC Multi Split Inverter System has been designed to use the state-of-the-art, twin rotary compressor. In this compressor, the roller phases are staggered 180° apart from each other. With this design, the centrifugal forces of one roller is counterbalanced by the force of the other roller, whereby reducing the vibration of the compressor. This makes the unit quieter and less vibration.

To further reduce the noise level, brushless DC motor is used. This further reduces noise generated by the fan motor. Additionally, by using a bigger sized fan blade, a lower rpm is possible while maintaining ample airflow.

Improved Compressor Life Span

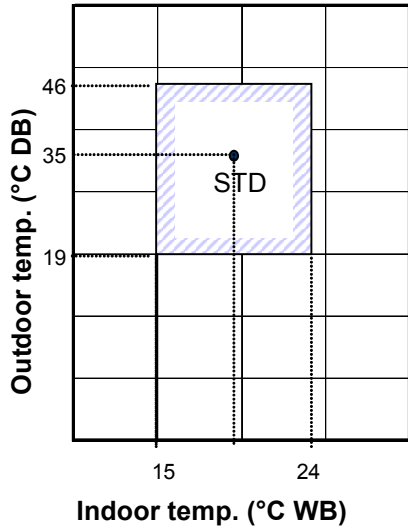
For the McQuay DC Multi Split Inverter system, once the unit is started, the compressor rotation speed is steadily ramp up or down based on load requirement throughout the operation. This control method gives the compressor motor a smooth operation. It helps to reduce the wear and tear of the compressor motor. In the long run, the life span of compressor is increased.


Application Information

Operating Range

Ensure the operating temperature is in allowable range

Cooling only

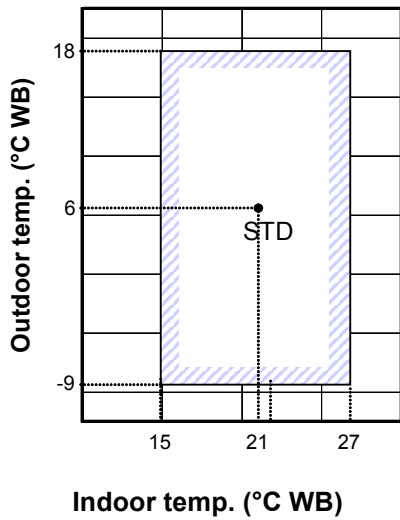


 **Cautions:**

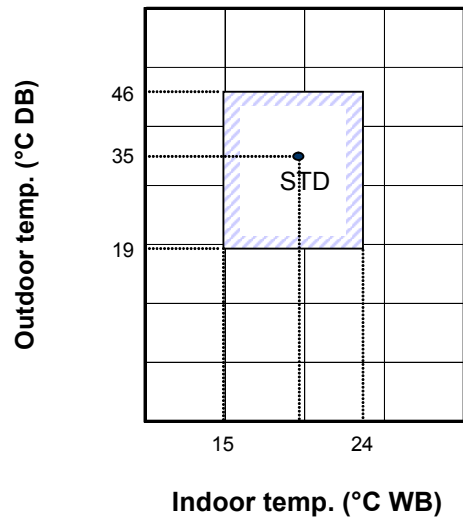
The use of your air conditioner outside the range of working temperature and humidity can result in serious failure.

Heat pump

Heating

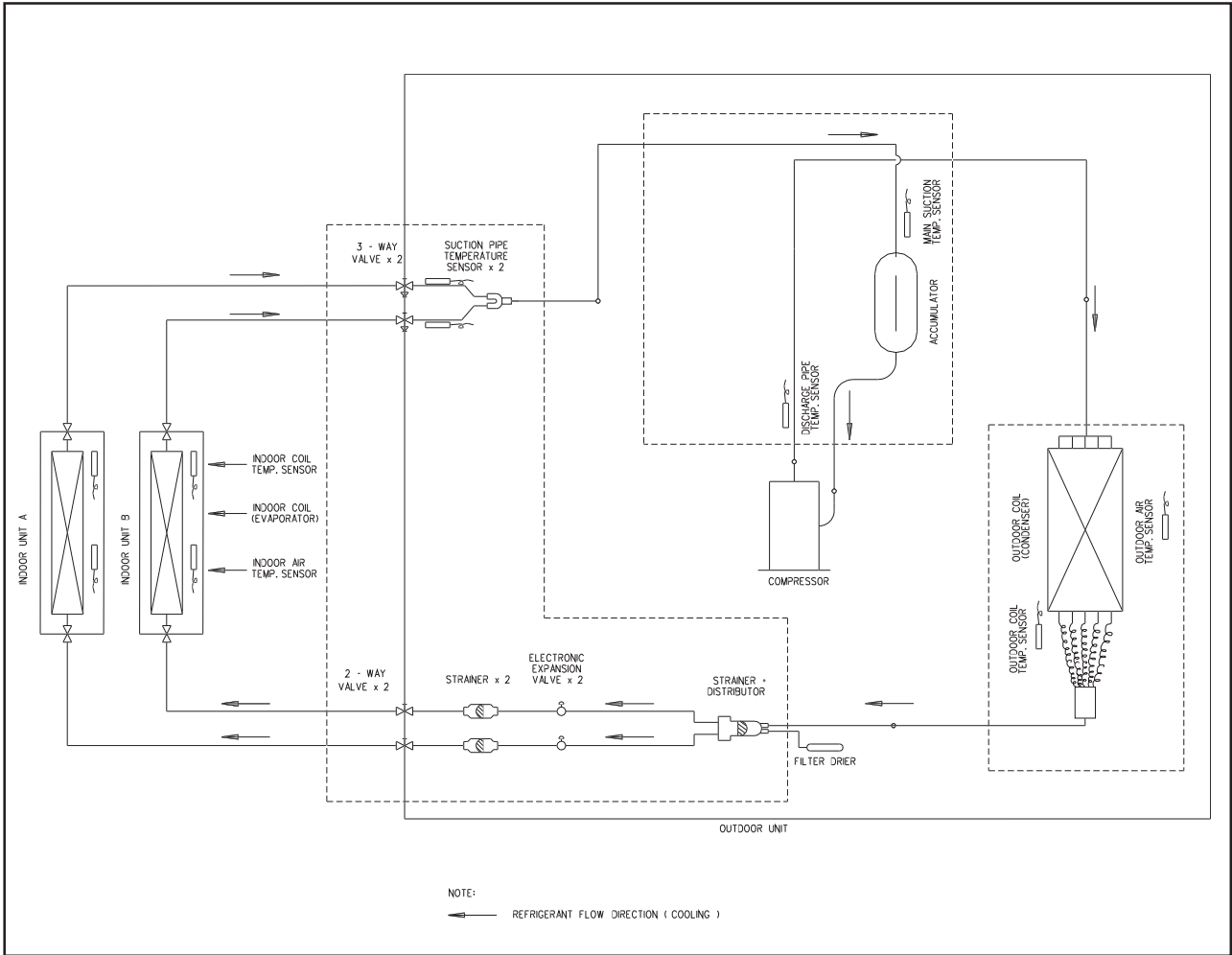


Cooling

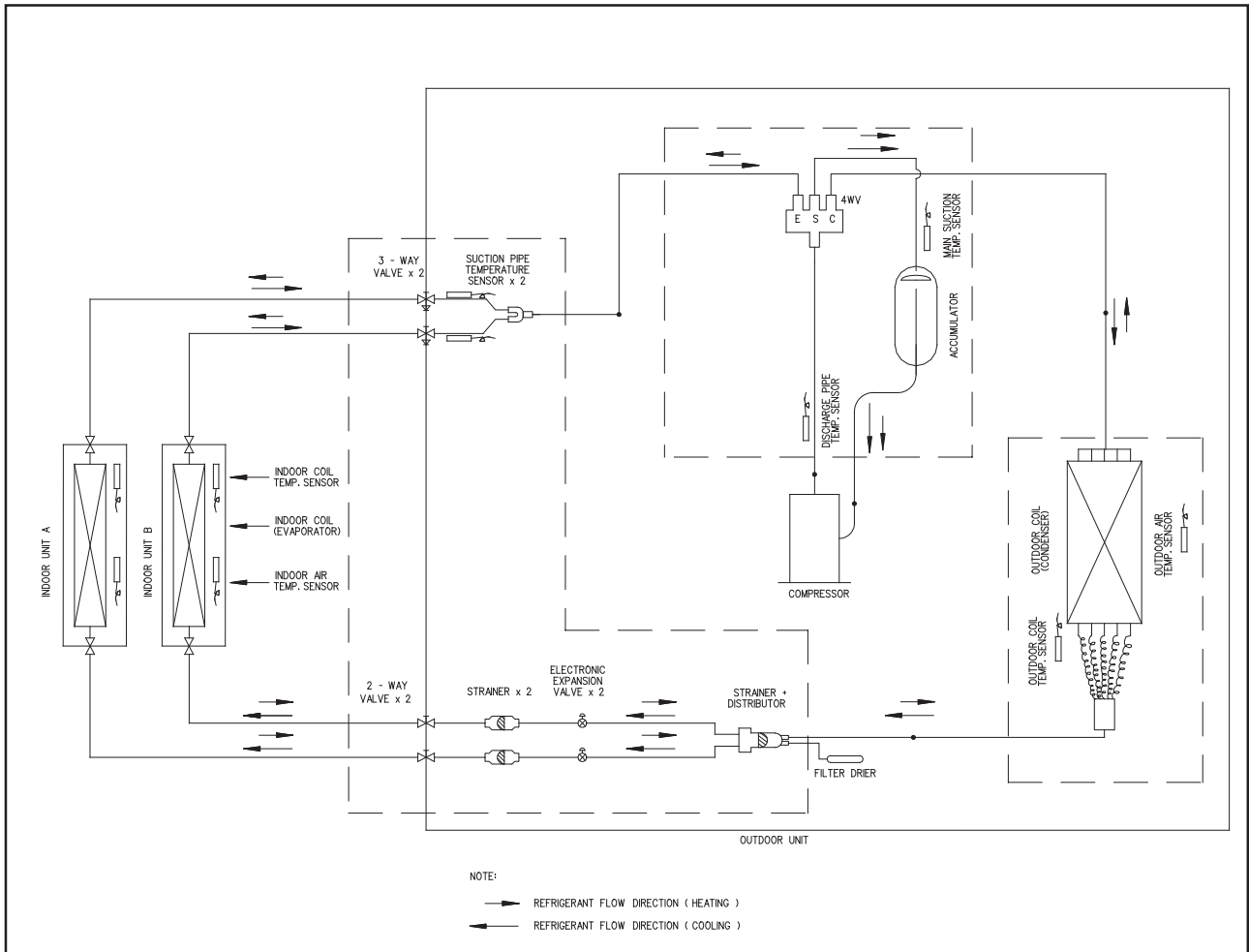


Refrigerant Circuit Diagram

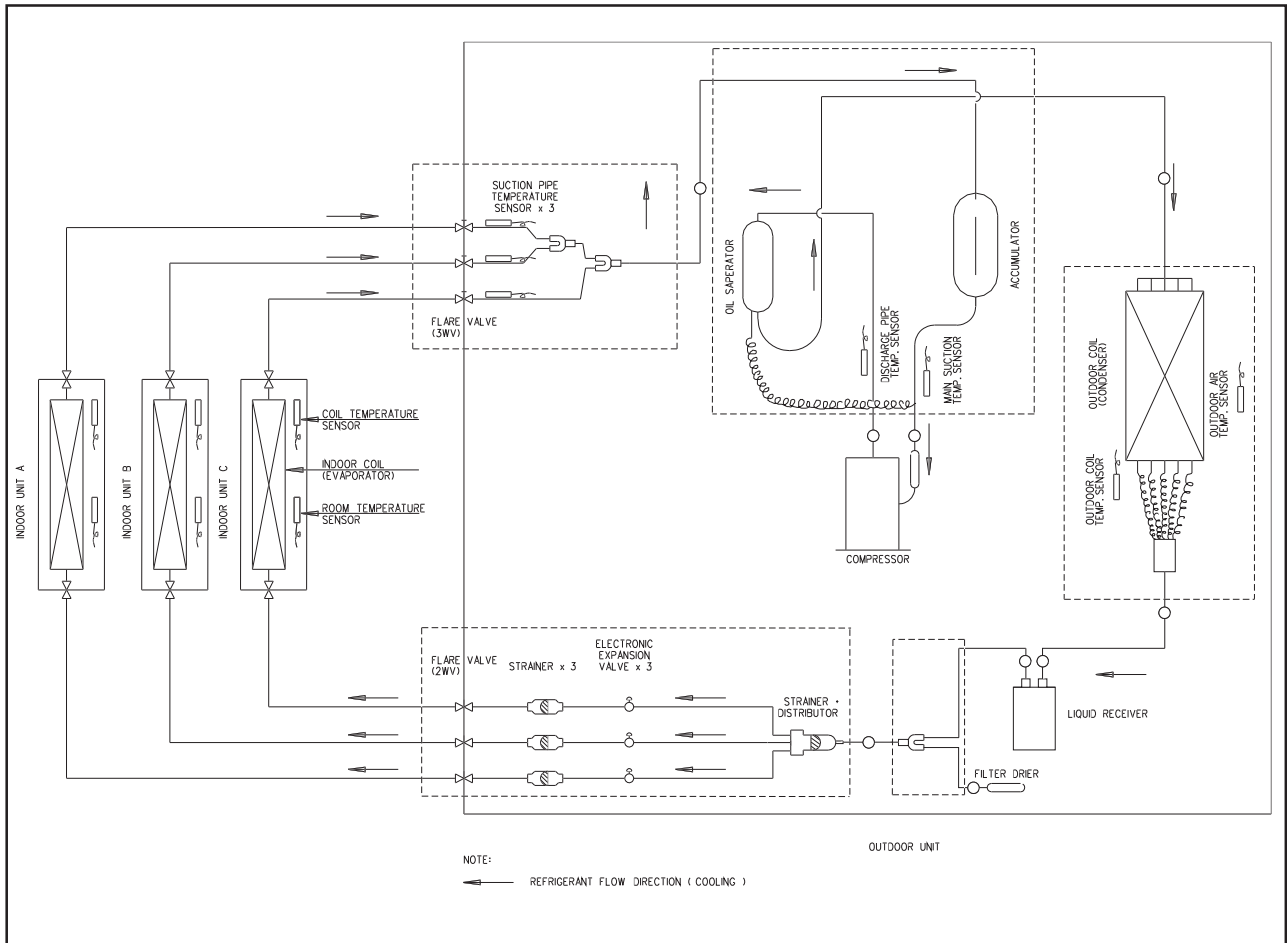
Model : M5MSX 020A



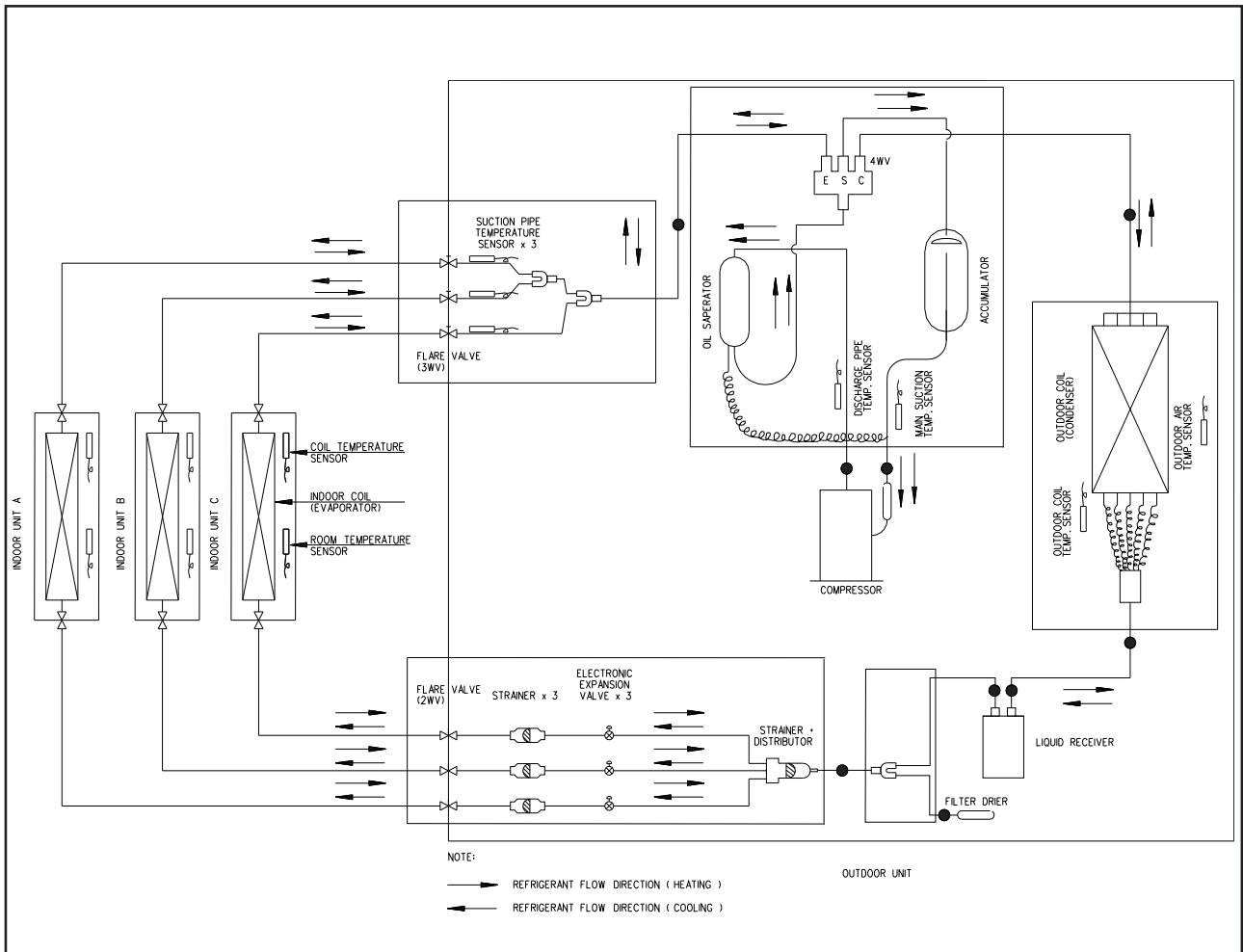
Model : M5MSX 020AR



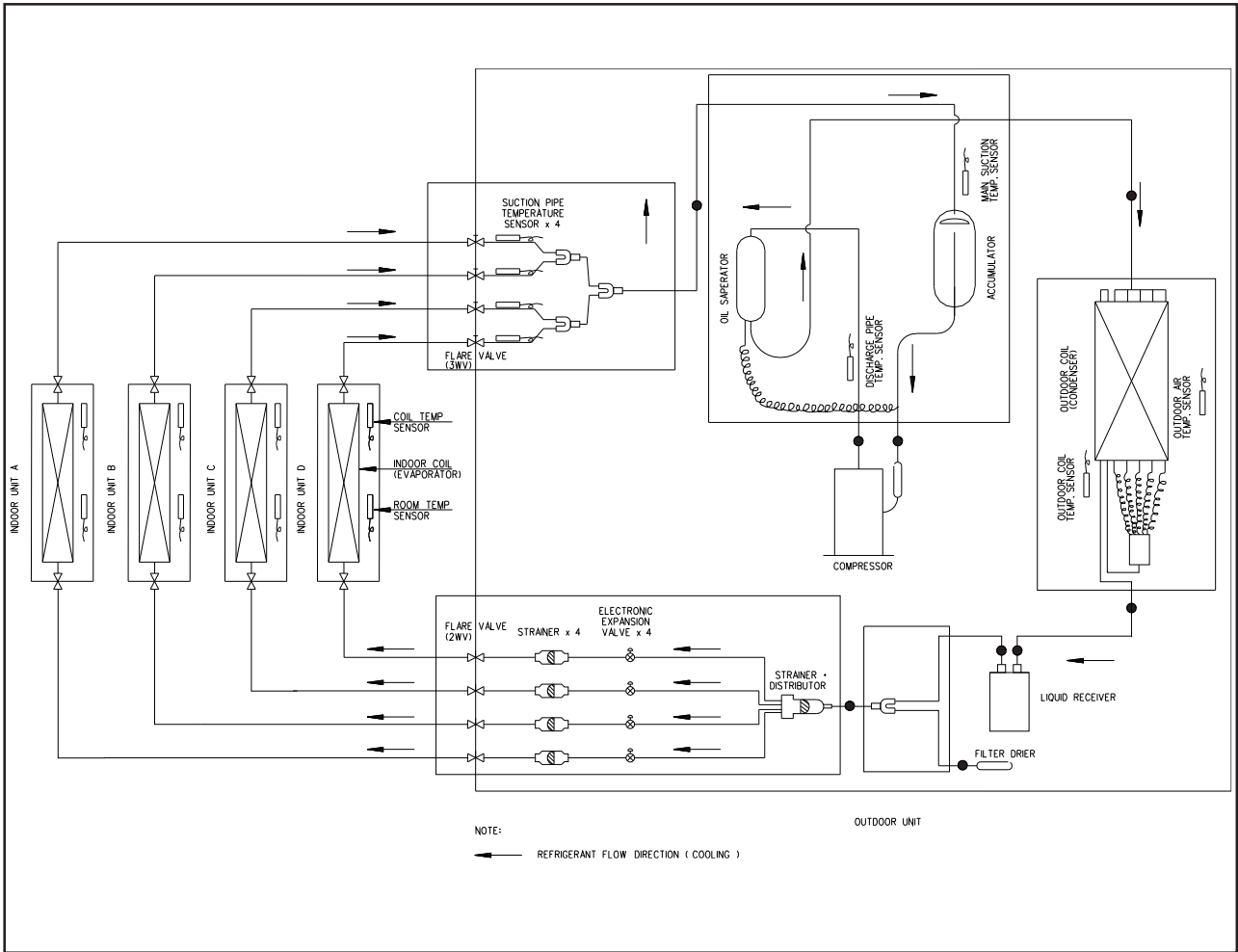
Model : M5MSX 025A



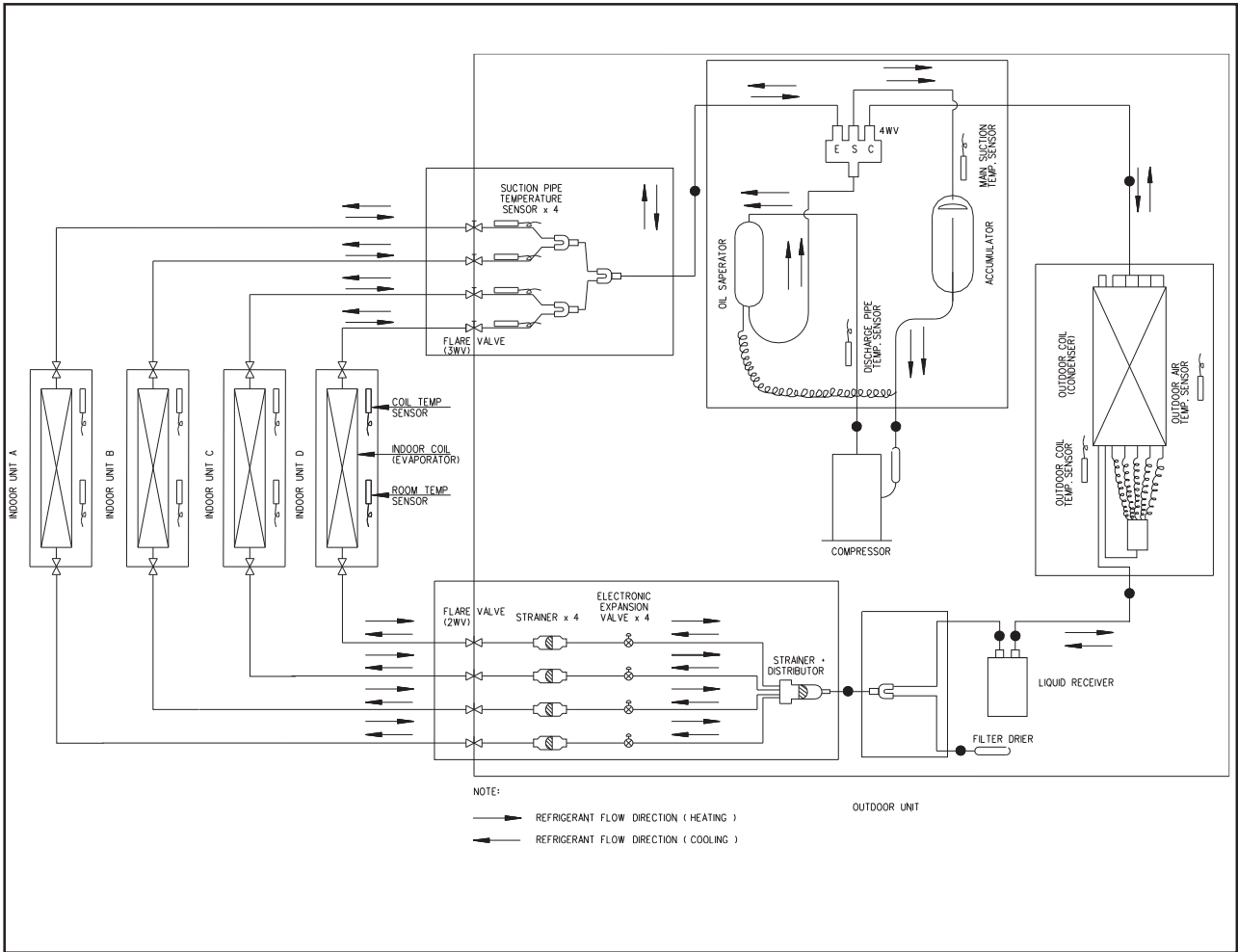
Model : M5MSX 025AR



Model : M5MSX 030A



Model : M5MSX 030AR



Controllers

G11 Remote Controller

Temperature Setting

- To set the desired room temperature, press the button to increase or decrease the set temperature.
- The temperature setting range is from 16°C to 30°C
- Press both buttons simultaneously to toggle the temperature setting between °C and °F

Turbo Mode

- Press the TURBO button to achieve the required set temperature in a short time.

Sleep Mode

- Press the button to activate sleep mode. This function is available under COOL, HEAT & AUTO mode.
- When it is activated in COOL mode, the set temperature will be increased 0.5°C after 30mins, 1°C after 1 hour and 2°C after 2 hours.
- When it is activated in HEAT mode, the set temperature will be decreased 1°C after 30mins, 2°C after 1 hour and 3°C after 2 hours.

ON Timer Setting

- Press the SET button will activate the on timer function.
- Set the desired on time by pressing the SET button continuously.
- Press the CLR button to cancel the off timer setting

Clock Time Setting

- Press button + or - to increase or decrease the clock time.

Ionizer

- Press the button to activate the negative Ion function, which will refresh the indoor air effectively.

On/Off Button

- Press Once to start the air conditioner
- Press again to stop the unit

Personalised Setting

- Press and hold the button for 3s to initiate personalized setting.
- Set the individual setting e.g. MODE, SET TEMP or FAN SPEED and leave for 4s to save
- 2 groups of settings are allowed to be stored in the handset

Fan Speed Selection

- Press the button until the desired fan speed is achieved.

Operating Mode

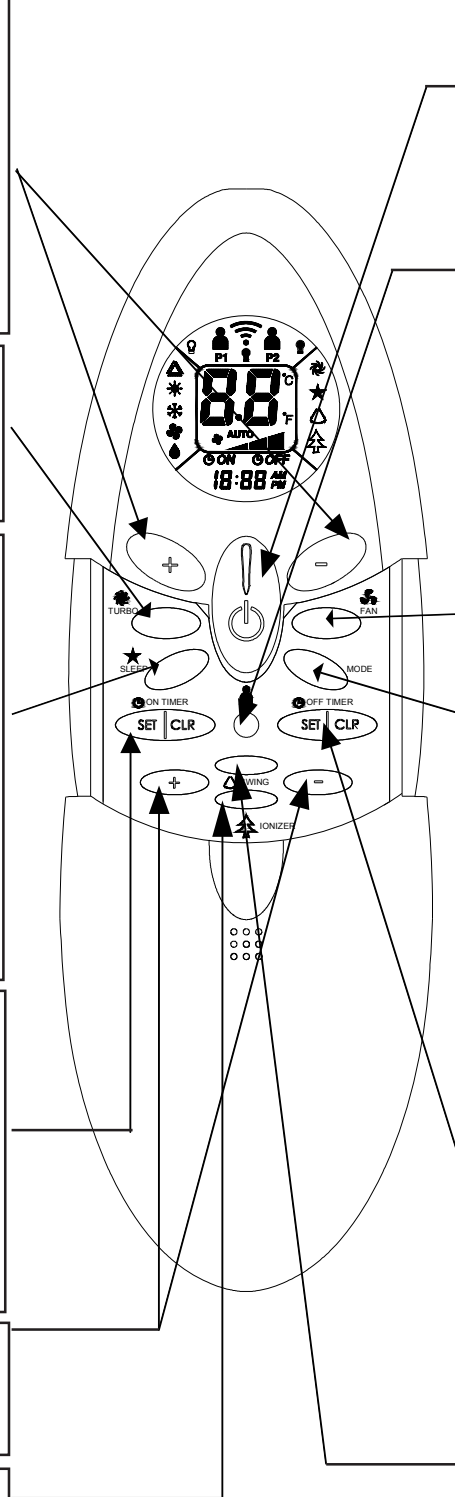
- Press the MODE button to select the type of operating mode.
- For Cooling only unit, the available modes are: COOL, DRY & FAN.
- For Heatpump unit, the available modes are: AUTO, COOL, DRY, FAN & HEAT.

OFF Timer Setting

- Press the SET button will activate the off timer function.
- Set the desired off time by pressing the SET button continuously.
- Press the CLR button to cancel the off timer setting

Automatic Air Awing

- Press the SWING button to activate the automatic air swing function.
- To distribute the air to a specific direction, press the SWING button and wait until the louver move to the desired direction and press the button once again.



* Depends on Specifications

Installation

Safety Precautions

Before installing the air conditioner unit, please read the following safety precautions carefully



Warning

- Installation and maintenance should be performed by qualified persons who are familiar with local code and regulation, and experienced with this type of appliance.
- All field wiring must be installed in accordance with the national wiring regulation.
- Ensure that the rated voltage of the unit corresponds to that of the name plate before commencing wiring work according to the wiring diagram.
- The unit must be GROUNDED to prevent possible hazards due to installation failure.
- All electrical wiring must not touch the refrigerant piping, compressor or any moving parts of the fan motors.
- Confirm that the unit has been switched OFF before installing or servicing the unit.
- Do not touch the compressor or refrigerant piping without wearing gloves.

IMPORTANT: DO NOT INSTALL OR USE THE AIR CONDITIONER UNIT IN A LAUNDRY ROOM

Caution

Please take note of the following important points when installing.

- **Do not install the unit where leakage of flammable gas may occur.**



If gas leaks and accumulates around the unit, it may cause fire ignition.

- **Ensure that the drainage piping is connected properly.**



If the drainage piping is not connected properly, it may cause water leakage which will dampen the furniture.

- **Do not overcharge the unit.**



This unit is factory pre-charged. Overcharge will cause over-current or damage to the compressor.

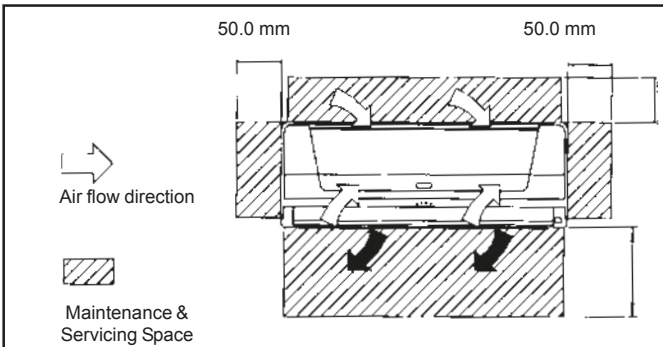
- **Ensure that the units panel is closed after service or installation.**



Unsecured panels will cause unit to operate noisily.

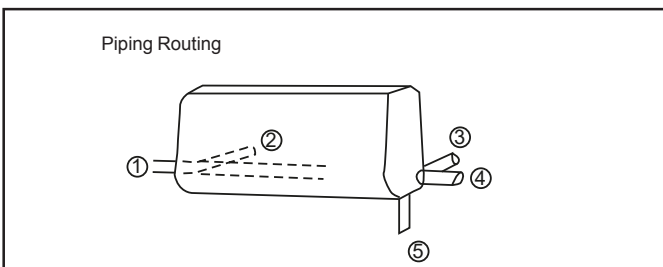
Installation of the indoor unit

The indoor unit must be installed in such a way so as to prevent short circuit of the cool discharged air with the hot return air. Please follow the installation clearance shown in the figure. Do not place the indoor unit where there could be direct sunlight shining on it. Also, this location must be suitable for piping drainage and be away from doors or windows.

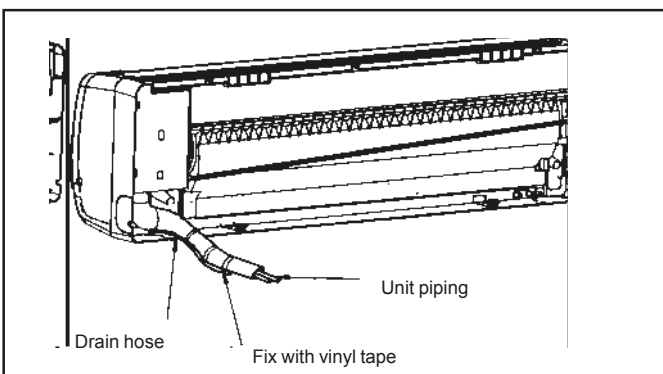


Routing of piping

Remove the screw holding the front panel.



The refrigerant piping can be routed to the unit in a number of ways (left or right from the back of the unit) by using the cut-out holes on the casing of the unit (see figure). Bend the pipes carefully to the required position in order to align it with the holes. For the right hand and rear side out, hold the bottom of the piping and then position it to the required direction (see figure). The condensation drain hose can be taped to the pipes.

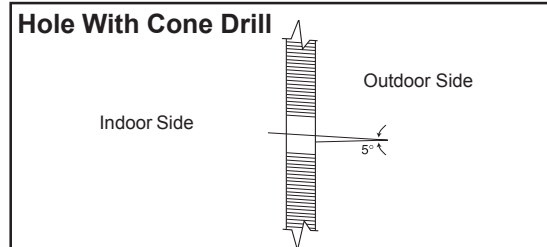
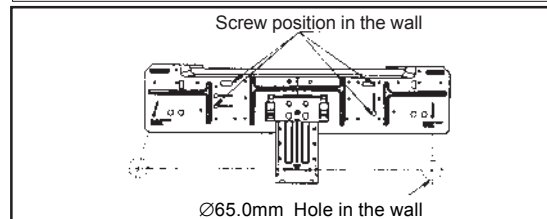
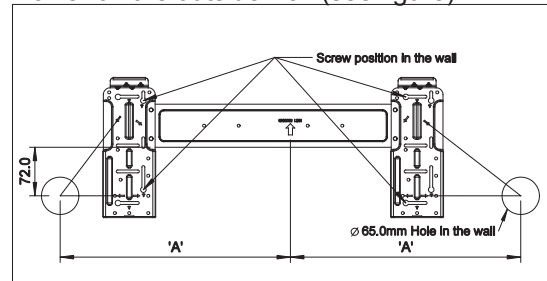


Mounting installation plate

Ensure that the wall is strong enough to withstand the weight of the unit. Otherwise, it is necessary to reinforce the wall with plates, beams or pillars.

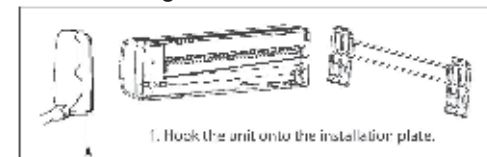
Use the level gauge for horizontal mounting, and fix it with 4 suitable screws.

In case the rear piping draws out, drill a hole 65mm in diameter with a cone drill, slightly lower on the outside wall (see figure)



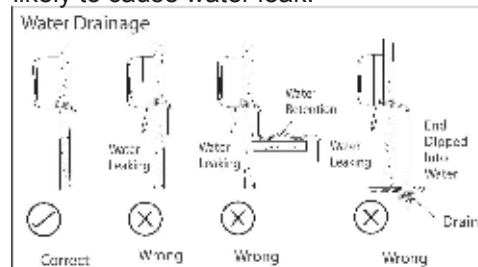
Mount the unit onto the installation plate

Hook the indoor unit onto the upper portion of the installation plate (Engage the two hooks at the rear top of the indoor unit with the upper edge of the installation plate). Ensure that the hook are properly seated on the installation plate by moving it to the left and right.

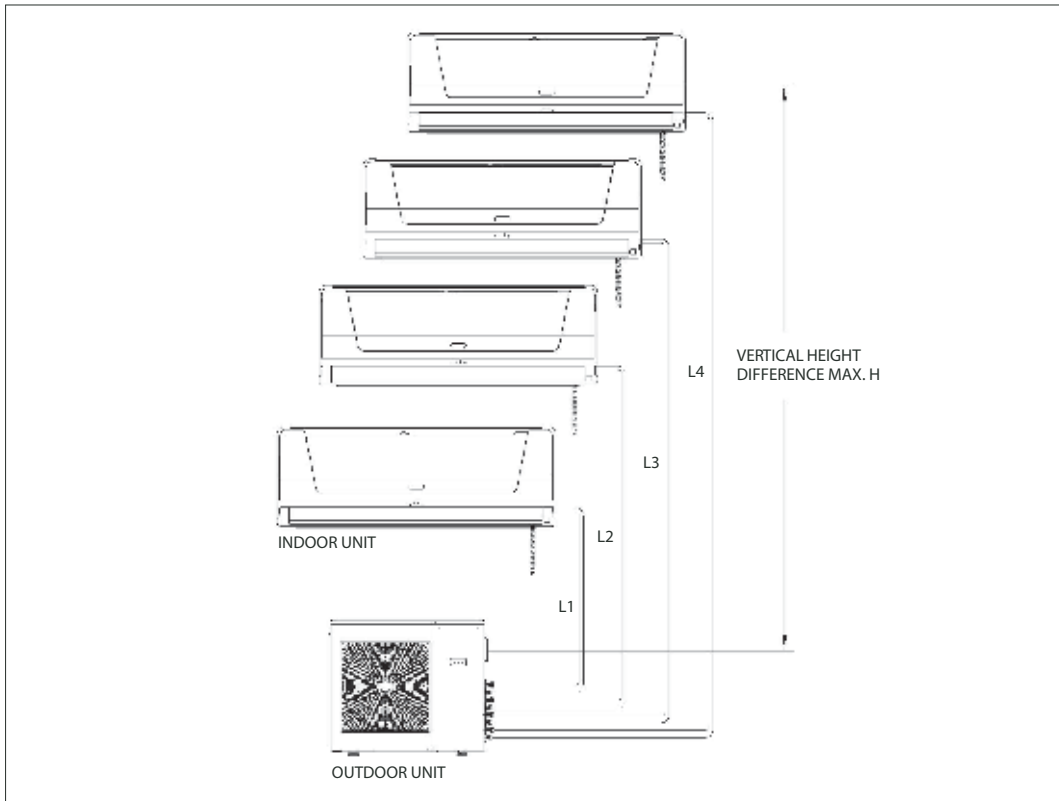


Water drainage piping

The indoor pipe must be in a downward gradient for smooth drainage. Avoid situations that are likely to cause water leak.



Installation Diagram



Indoor unit combination for outdoor unit **M5MSX 020A/AR, M5MSX025A/AR and M5MSX030A/AR**

Indoor units with model name M5WMX 010G/GR, M5WMX015G/GR and M5WMX020G/GR could be coupled with this outdoor unit.

The following table shows the possible coupling combinations available.

| No | Coupling Combinations (5WMX-G/GR) | | |
|----|-----------------------------------|--------------|--------------|
| | M5MSX020A/AR | M5MSX025A/AR | M5MSX030A/AR |
| 1 | 10+10 | 10+10+10 | 10+10+10+10 |
| 2 | 10+15 | 10+10+15 | 10+10+10+15 |
| 3 | 15+15 | 10+10+20 | 10+10+10+20 |
| 4 | | 10+15+15 | 10+10+15+15 |
| 5 | | 10+15+20 | 10+10+15+20 |
| 6 | | 15+15+20 | 10+15+15+15 |
| 7 | | | 15+15+15+15 |

For further details on operation combinations, total capacity and other technical specifications, please refer to the technical manual.

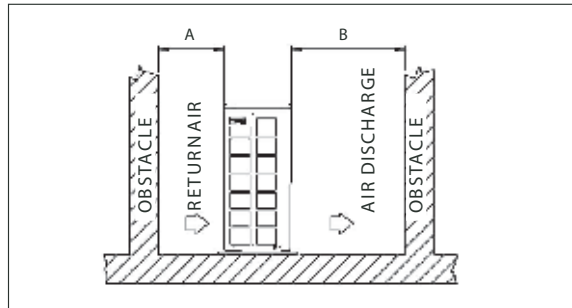
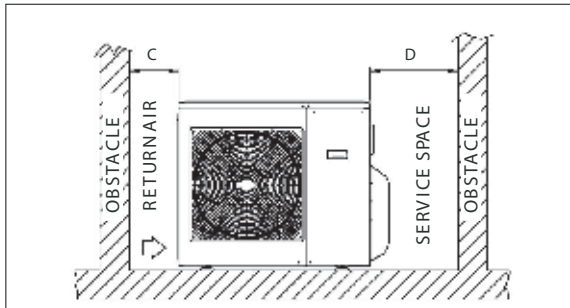
Installation of outdoor unit

The outdoor unit must be installed in such a way, so as to prevent short circuit of the hot discharged air or obstruction to the smooth air flow. Please follow the installation clearance shown in the figures below. Select the coolest possible place where intake air temperature is not greater than the outside air temperature (maximum 45°C/113°F).

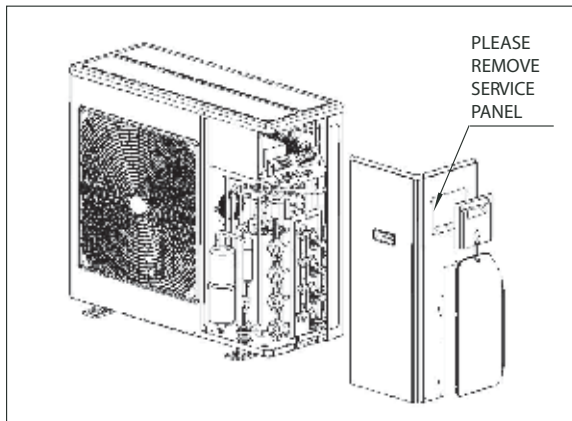
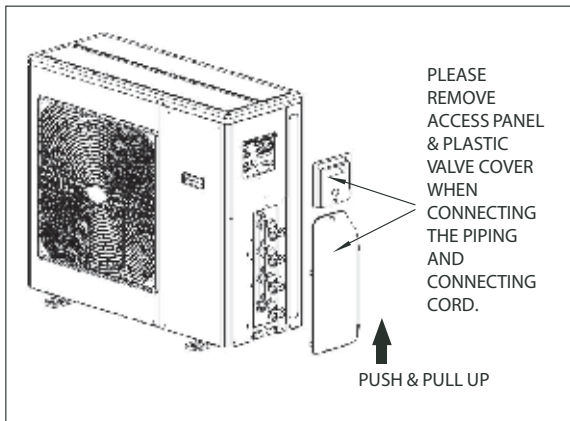
Note: If there is any obstacle higher than 2m (6.56ft), or if there is any obstruction at the upper part of the unit, please allow more space than the figure indicated in the table shown below.

Installation Clearances

| Dimensions | A | B | C | D |
|----------------------|-----|------|-----|-----|
| Minimum Distance(mm) | 300 | 1000 | 300 | 500 |



Before installation the piping and connecting cord, please remove the access panel and plastic valve cover or service panel for easy access and safety. Refer to figures shown below.



Refrigerant piping work

Piping length and elevation

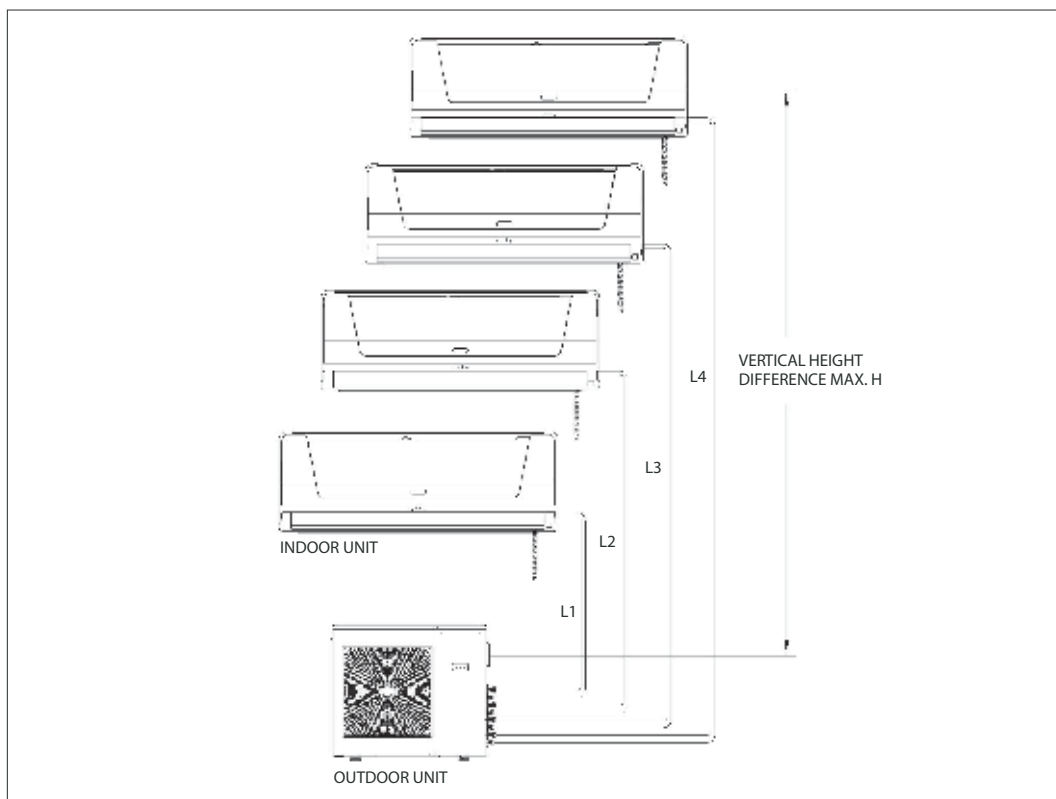
If the pipe is too long, both capacity and reliability of the unit will drop. As the number of bends increases, resistance to the flow of refrigerant system increases, thus lowering cooling capacity. As a result, the compressor may become defective. Always choose the shortest path and follow the recommendations as tabulated below.

| Item | Model | Long Piping | | | O/D Precharged | Charge Amount for Additional Piping Length | | |
|------|--------------------------|---|---------------|---------------|----------------|--|-------|-------|
| | | M5WMX010 G/GR | M5WMX015 G/GR | M5WMX020 G/GR | | 20m | 25m | 30m |
| 1 | M5MSX020A/AR (1 to 2) | 20 | 20 | 20 | 1650g | 20m | 25m | 30m |
| | | (Total length $L_1+L_2 = 30m$) | | | | 0 | +100g | +200g |
| 2 | M5MSX025A/AR (1 to 3) | 20 | 20 | 20 | 2320g | 40m | 45m | 50m |
| | | (Total length $L_1+L_2 + L_3 = 50m$) | | | | 0 | +100g | +200g |
| 3 | M5MSX030A/AR (1 to 4) | 20 | 20 | 20 | | 40m | 50m | 60m |
| | | (Total length $L_1+L_2 + L_3 + L_4 = 60m$) | | | | 0 | +200g | +400g |

| Coupling Model | M5WMX010G/GR | M5WMX015G/GR | M5WMX020G/GR |
|---------------------------|--------------|--------------|--------------|
| Max. Elevation, H (m/ ft) | 5 | 5 | 5 |
| Max. Number of Bends | 10 | 10 | 10 |
| Liquid Pipe Size | 1/4" | 1/4" | 1/4" |
| Gas Pipe Size | 3/8" | 1/2" | 1/2" |

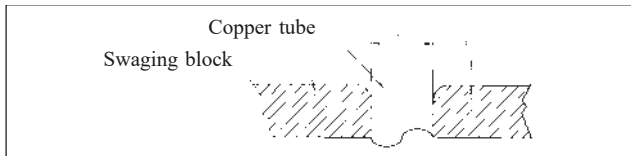
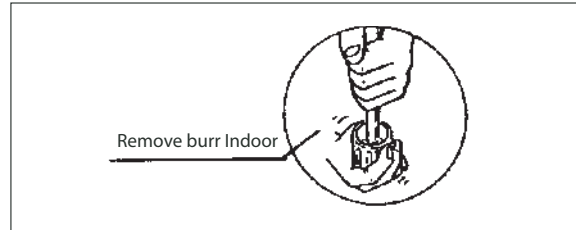
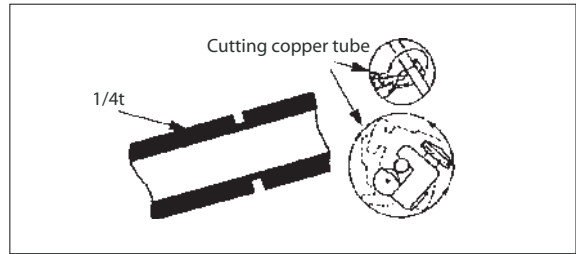
Individual indoor unit can have a maximum length of 20 m (65.6ft), maximum elevation of 5 m (32.8ft) and maximum number of bends of 10, however, the total pipe length must not exceed 30m (M5MSX20AR), 50m (M5MSX025AR) or 60m (M5MSX030AR) depending on the model of the outdoor unit.

Remark: The refrigerant pre-charged in the outdoor unit is for total piping length up to 20m for model M5MSX020A/AR and 40m for model M5MSX025A/AR and M5MSX030A/AR.

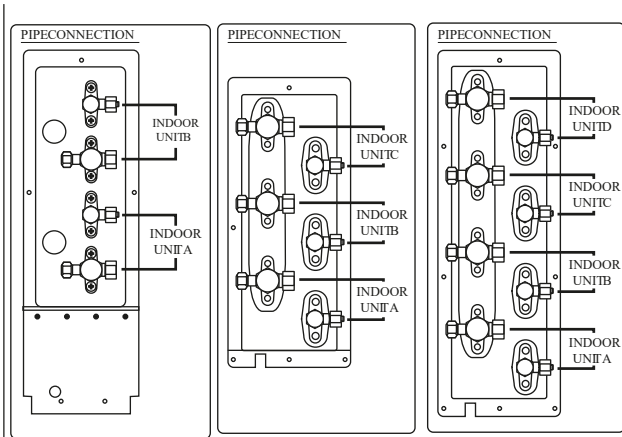


Piping Works

- Do not use contaminated or damaged copper tubing. Do not remove plastic, rubber plugs and brass nuts from the valves, fittings, tubings and coils until you are ready to connect suction or liquid line into valves or fittings.
- If any brazing work is required, ensure that the nitrogen gas passed through coil and joints while the brazing work is being done. This will eliminate soot formation on the inside walls of the copper tubings.
- Cut the connection pipe with a pipe cutter.
- Remove burrs from cut edges of the pipes with remover. Hold the end of the pipe downwards to prevent metal chips from entering the pipe.
- Insert the flare nuts, mounted on the connection parts of both the indoor unit and outdoor unit onto the copper pipes.
- Flare the pipe with extra length above the flaring tool as shown in the table below.
- The flare edge must be even and not cracked or scratched.



| Ø Tube, D | | A(mm) | |
|-----------|-------|----------|-------|
| Inch | mm | Imperial | Rigid |
| 1/4" | 6.35 | 1.3 | 0.7 |
| 3/8" | 9.52 | 1.6 | 1.0 |
| 1/2" | 12.70 | 1.9 | 1.3 |
| 5/8" | 15.88 | 2.2 | 1.7 |
| 3/4" | 19.05 | 2.5 | 2.0 |



| Pos. | M5MSX020A/AR | | M5MSX025A/AR | | M5MSX030A/AR | |
|------|--------------|------|--------------|------|--------------|------|
| | Liquid | Gas | Liquid | Gas | Liquid | Gas |
| A | 1/4" | 3/8" | 1/4" | 3/8" | 1/4" | 3/8" |
| B | 1/4" | 3/8" | 1/4" | 3/8" | 1/4" | 3/8" |
| C | | | 1/4" | 3/8" | 1/4" | 3/8" |
| D | | | | | 1/4" | 3/8" |

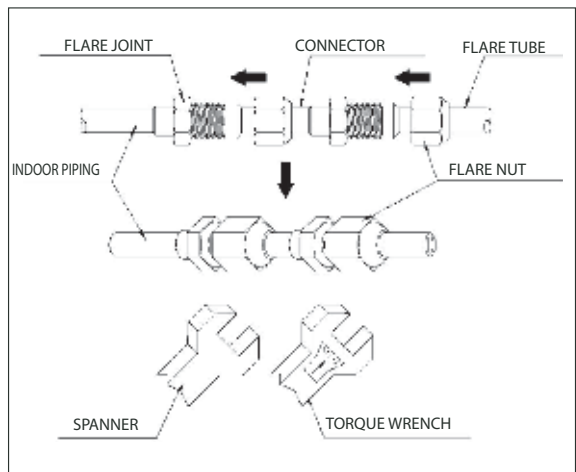
Piping connection to the units

- The outdoor unit is equipped with two to four sets of flare joints depending on O/D unit model. Refer to table below for flare joint size and location.
- In the case where gas pipe from the indoor unit does not match the outdoor flare joints, two different flare joint connectors are provided. The connector should be connected as shown in figure.

| No | Flare Joint Connectors |
|----|------------------------|
| 1 | 3/8" to 1/2" connector |
| 2 | 1/2" to 3/8" connector |

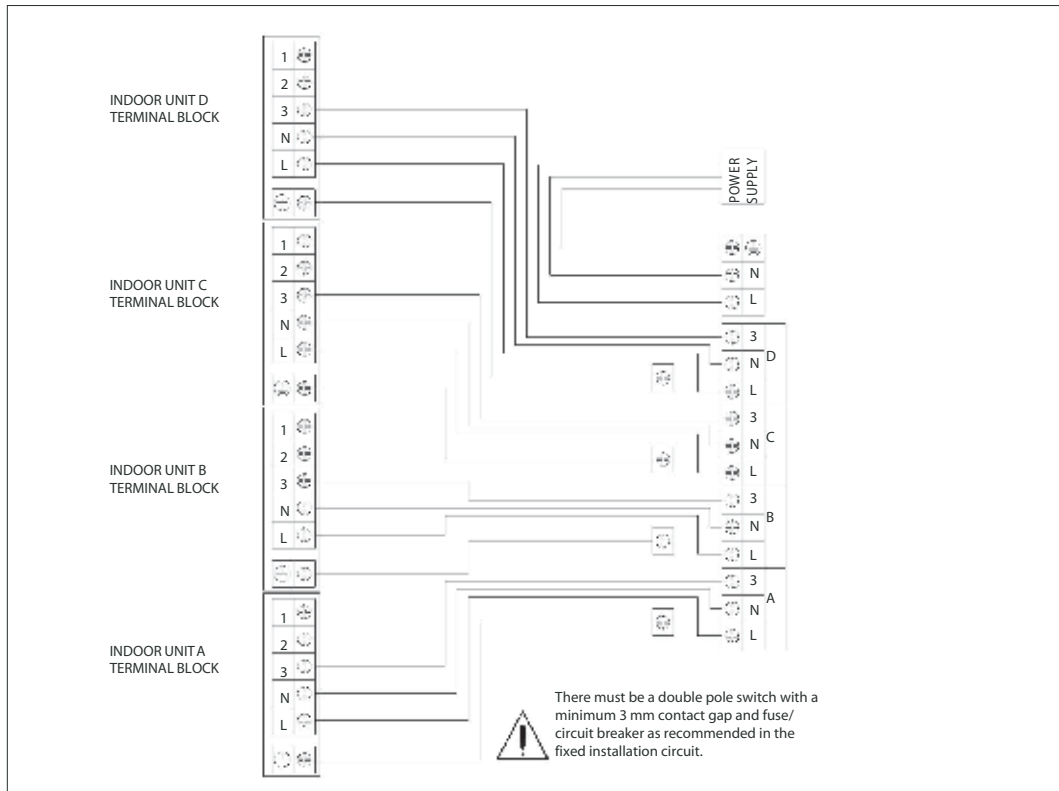
- Align the center of the piping and tighten the flare nut sufficiently with fingers.
- Finally, tighten the flare nut with the torque wrench until the wrench clicks.

| Pipe Size mm / (in) | Torque Nm / (ft - lb) |
|---------------------|-----------------------|
| 6.35 (1/4) | 18 (13.3) |
| 9.53 (3/8) | 42 (31.0) |
| 12.70 (1/2) | 55 (40.6) |

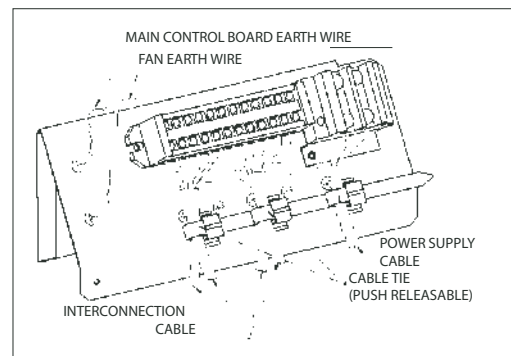


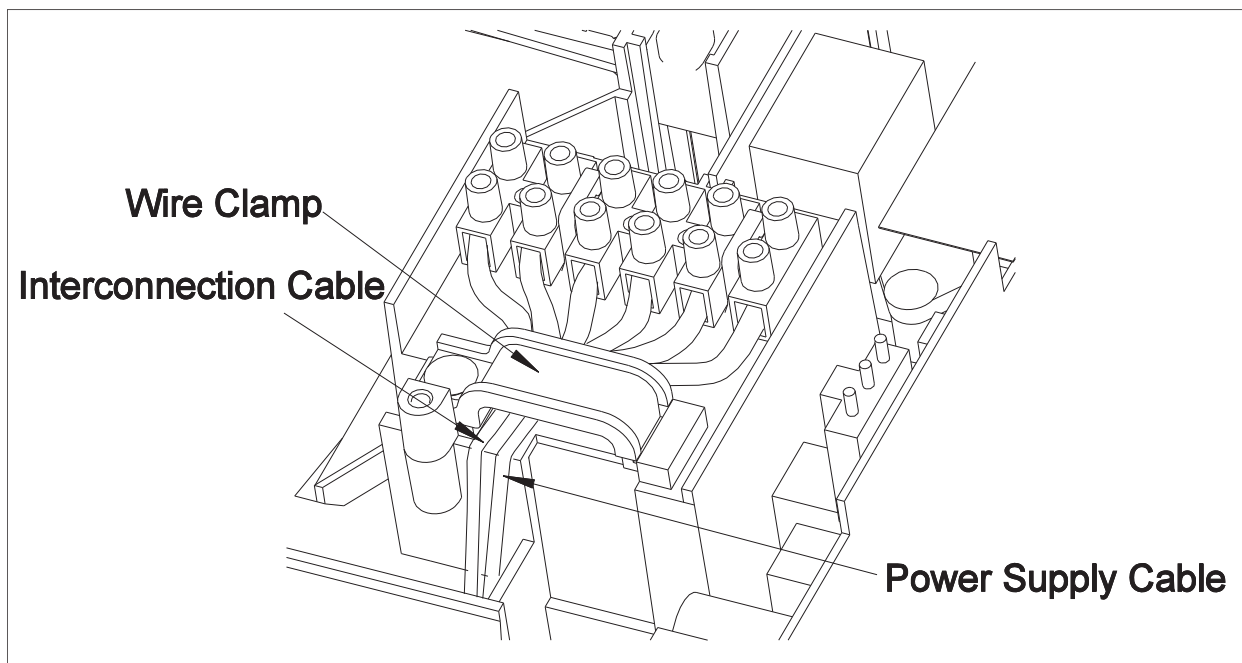
Electrical wiring connection

IMPORTANT : The figures shown in the table are for information purpose only. They should be checked and selected to comply with the local/national codes of regulations. This is also to the type of installation and conductors used.



- All wiring must be connected accordingly to the diagram above, with reference to the piping connection. Mismatch any wiring with different piping will cause severe damage to the system.
- All wires must be firmly connected.
- All wires must not touch the refrigerant piping, compressor or any moving parts of the fan motor.
- The connecting wires between the indoor unit and the outdoor unit must be clamped on the wire clamps and the cable tie (push releasable) at the indoor unit and outdoor unit respectively as shown in the figures.
- The power supply cord must be equivalent to H05RN-F (245IEC57) which is the minimum requirement.





| Model | M5WMX010G/15G | M5WMX020G/GR |
|---|-----------------------------|--------------|
| Voltage range | 220V-240V / 1 Ph / 50Hz + ■ | |
| Power supply cable size (mm ²) | 3.0 | |
| Number of wire | 3 | |
| Interconnection cable size (mm ²) | 1.5 | 2.5 |
| Number of wire | 4 | 4 |
| Recommended time delay fuse for O/D unit | 25 | |

- The table above shows the electrical wire sizing for different connection cables. If the length of the cable is more than 2m, use cable with bigger size.
- The figures shown in the table are for information purpose only. They should be checked and selected to comply with the local/national codes of regulations. This is also to the type of installation and conductors used.

Special precautions when dealing with R410A unit

R410A is a new HFC refrigerant which does not damage the ozone layer. The working pressure of this new refrigerant is 1.6 times higher than conventional refrigerant (R22), thus proper installation / servicing is essential.

- Never use refrigerant other than R410A in an air conditioner which designed to operate with R410A.
- POE oil is used as lubricant for R410A compressor, which is different from the mineral oil used for R22 compressor. During installation or servicing, extra precaution must be taken not to expose the R410A system too long to moist air. Residual POE oil in the piping and components can absorb moisture from the air.
- To prevent mischarging, the diameter of the service port on the flare valve is different from that of R22.
- Use tools and materials exclusively for refrigerant R410A. Tools exclusively for R410A are manifold valve, charging hose, pressure gauge, gas leak detector, flare tools, torque wrench, vacuum pump and refrigerant cylinder.
- As an R410A air conditioner incurs higher pressure than R22 units, it is essential to choose the copper pipes correctly. Never use copper pipes thinner than 0.8mm even though they are available in the market.
- If the refrigerant gas leakage occurs during installation / servicing, be sure to ventilate fully. If the refrigerant gas comes into contact with fire, a poisonous gas may occur.
- When installing or removing an air conditioner, do not allow air or moisture to remain in the refrigerant cycle.

Vacuuming and charging

Purging the piping and indoor unit

Except for the outdoor unit which is pre-charged with refrigerant R22, the indoor unit and the refrigerant connection pipes must be air-purged because the air containing moisture that remains in the refrigerant cycle may cause malfunction of the compressor.

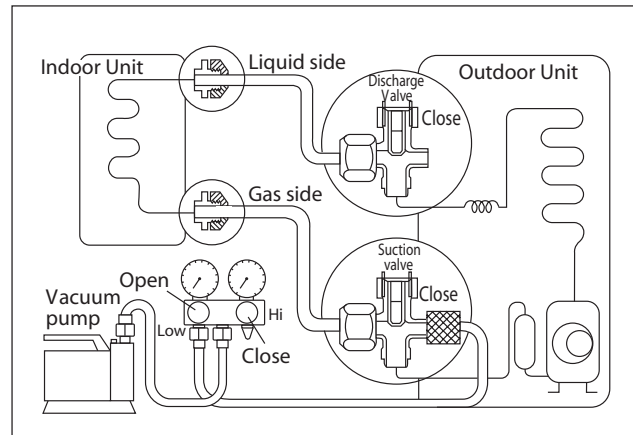
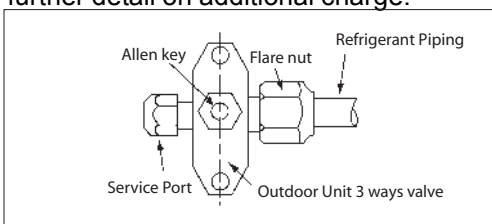
- Make sure all pipes are connected securely to the outdoor and indoor valves.
- Remove the caps from the flare valve and the service. Take note that there are a total of two service ports for 5MSX20A/AR, three service ports for 5MSX25A/AR and four service ports for 5MSX30A/AR.
- Connect the center of the charging gauge to the vacuum pump.
- Starting from the bottom 3-way valve (labeled A), connect the charging gauge to the 3-way valve's service port. (The numbers of service ports depend on the O/D unit model).
- Start the vacuum pump. Evacuate for approximately 30 minutes. The evacuation time varies with different vacuum pump capacity. Confirm that the charging gauge needle has moved towards -760mmHg.
- Proceed to the next 3-way valve and repeat the steps above.

Caution

- If the gauge needle does not move to -760mmHg, be sure to check for gas leaks (using the refrigerant detector) at flare type connection of the indoor and outdoor unit and repair the leak before proceeding to the next step.
- Close the valve of the charging gauge and stop the vacuum pump.
- On the outdoor unit, open the suction valve (3 way) and liquid valve (2 way) (in anti-clockwise direction) with 4mm key for hexagon sanded screw.

Additional charge

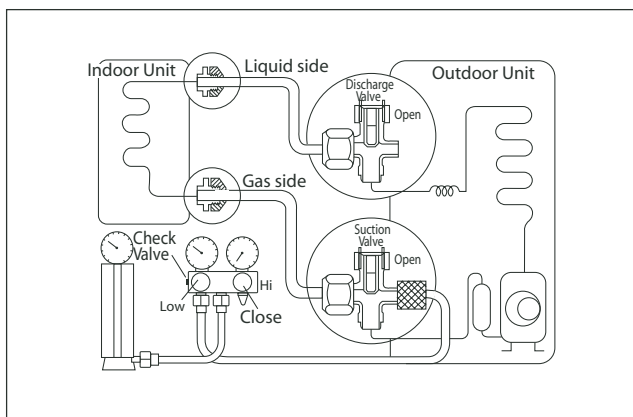
The refrigerant is pre-charged in the outdoor unit for specific piping length. Please refer to page 1-5 for further detail on additional charge.



Charge operation

This operation must be done by using a gas cylinder and a precise weighing machine. The additional charge is topped up into the outdoor unit using the suction valve via the service port.

- Remove the service port cap.
- Connect the low pressure side of the charging gauge to the suction service port center of the cylinder tank and close the high pressure side of the gauge. Purge the air from the service hose.
- Start the air conditioner unit.
- Open the gas cylinder and low pressure charging valve.
- When the required refrigerant quantity is pumped into the unit, close the low pressure side and the gas cylinder valve.
- Disconnect the service hose from service port. Put back the service port cap.



Caution

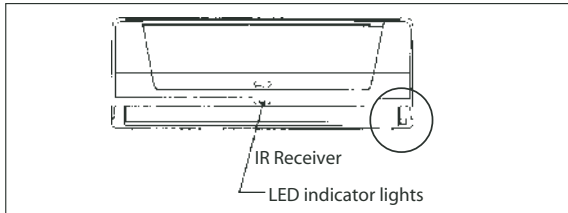
- R410A must be charged as liquid. Usually R410A cylinder is equipped with a dip-pipe for liquid withdrawal. If there is no dip-pipe, the cylinder should be inverted so as to withdraw liquid R410A from the valve.
- Do not top-up when servicing leak, as this will reduce the unit performance. Vacuum the unit thoroughly and then charge the unit with fresh R410A according to the amount recommended in the specification.

Indicator Lights

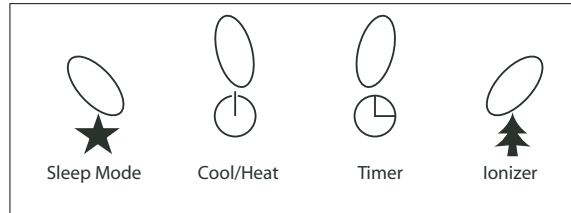
IR signal receiver

When an infrared remote control operating signal has been transmitted, the signal receiver on indoor unit will make a (beep) sound to confirm acceptance of the signal transmission. The table shows the LED indicator lights for the indoor air conditioner unit under normal operation and fault conditions. The LED indicator lights are located at the middle of the air conditioner unit for 5WMX-G/GR series.





Inverted cooling / Heat pump unit (5WMX-G/GR)



LED indicator lights for cooling unit / Heat pump unit



LED indicator lights : Normal operation and fault conditions for Cooling / Heat pump unit

|  SLEEP MODE |  COOL/HEAT |  TIMER |  IONIZER | Normal Operation/ Fault Indication | Action |
|--|--|--|--|--|------------------|
| ○ / ● | ○ Green | | ○ / ● | Cooling mode | - |
| ○ / ● | ○ Red | | ○ / ● | Heat mode | - |
| ○ / ● | ○ Green/Red | | | Sleep mode on | - |
| | ○ Green/Red | ○ YELLOW | | Timer on | - |
| | ○ Green/Red | | ○ Green | Ionizer on | - |
| | ● Red | | | Defrost operation | - |
| | ● YELLOW | | | Indoor temperature sensor / short | Call your dealer |
| | | ● | | Coil temperature sensor loose / short | Call your dealer |
| | | | ● | Outdoor temperature sensor loose / short | Call your dealer |
| ● | ● Green | | | Compressor overload protection | Call your dealer |
| | ● YELLOW | | ● | IPM / PFC error | Call your dealer |
| | | ● | ● | Outdoor total current trip / DC peak | Call your dealer |
| ● | | | ● | Compressor overheat / Gas leak | Call your dealer |
| | ● | ● | | Indoor fan feedback error | Call your dealer |
| ● | | ● | | Communication error between indoor and outdoor | Call your dealer |
| | ● Red | ● | | Anti freeze protection | Call your dealer |

○ ON

○ / ● ON or OFF

● BLINK

Air conditioner unit operation

Dry mode

- When the air humidity is high, the unit can operate in dry mode. Press <MODE> button and choose <DRY>.
- If the room temperature is 2°C higher than the set temperature, the air conditioner will operate under cooling mode until it reaches within the 2°C range of difference compared to the set temperature before it converts to dry mode.
- If the room temperature is within the 2°C range of difference compared to the set temperature, it will directly operate under dry mode.
- The indoor fan will operate at super low speed under dry mood.

Heat mode (for heat pump unit only)

- When the unit is switched on from cold start or defrosting cycle, the indoor fan will start to operate only after the coil reaches the desired temperature.
- When compressor stops; the indoor fan will operate until the coil temperature drops to a low level.

Horizontal air flow control

- For more effective air circulation, you can manually adjust the air discharge grille to the left or right.
- During cool mode operation and dry mode operation, do not direct the air discharge louver downwards for too long. If operating continues in this way, condensation may occur on the louver, thus resulting in drippings.

Overheating protection (for heat pump unit only)

- In case the internal and/or the external temperature is too high, or the filter is dirty and clogged up, the refrigerant may be overheated. The compressor will reduce its running speed in order to lower the temperature of heat exchanger. If the temperature is still very high, the compressor will stop.

Standard operating conditions

Cooling unit

| Temperature | Ts °C | Th °C |
|-----------------------------|-------|-------|
| Minimum indoor temperature | 19.0 | 14.0 |
| Maximum indoor temperature | 32.0 | 23.0 |
| Minimum outdoor temperature | 19.4 | - |
| Maximum outdoor temperature | 46.0 | - |

Frost prevention

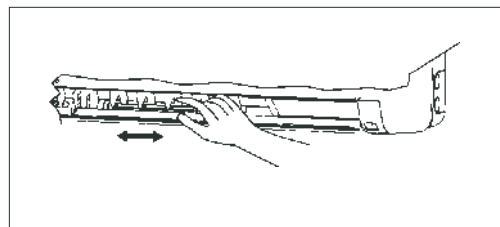
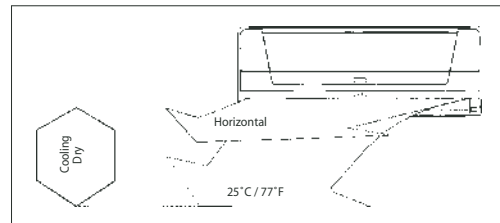
- When the air filter is dirty, the evaporating temperature will decrease and eventually cause frosting.
- When this happens, the compressor will reduce its running speed to prevent freezing. If the coil temperature is still very low, the compressor will stop.

Fan speed and rated cooling capacity

- The rated cooling capacity is provided at the maximum fan speed.
- The cooling capacity is lower when the unit is operating at MEDIUM and LOW speed.

Turbo function

- If higher cooling or heating is required during operation, press "Turbo" button on the remote control to increase the cooling or heating capacity to maximum.
- This function will operate for 15 minutes before it resume to the actual setting.
- The fan noise may be higher if the unit operate in "Turbo" mode.



Heat pump unit

| Temperature | Ts °C | Th °C |
|-----------------------------|-------|-------|
| Minimum indoor temperature | 16.0 | - |
| Maximum indoor temperature | 30.0 | - |
| Minimum outdoor temperature | -8.0 | -9.0 |
| Maximum outdoor temperature | 24.0 | 18.0 |

Ts : Dry bulb temperature

Th: Wet bulb temperature

Electrostatic Filter

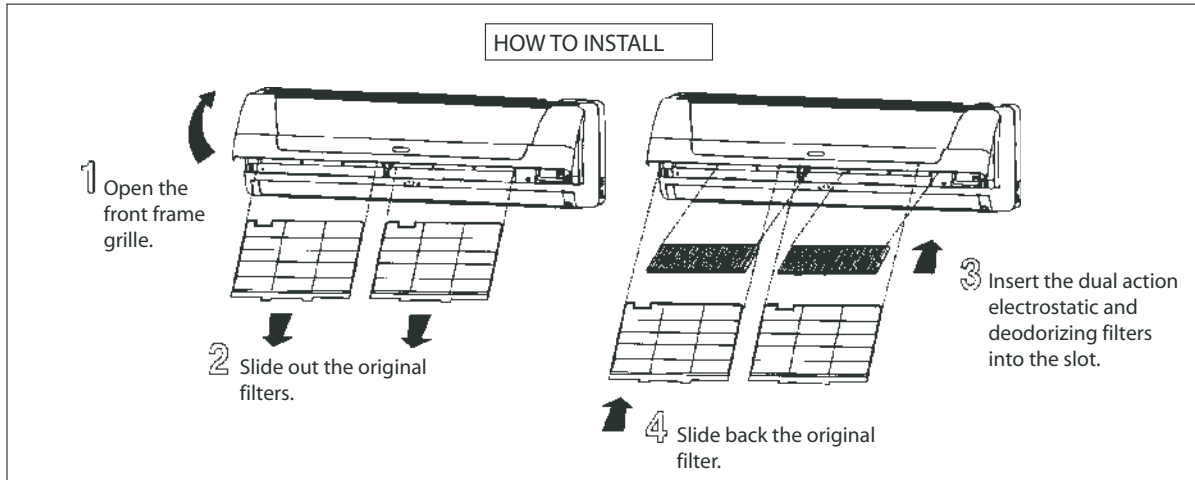
Dual Action Electrostatic Air Purifying and Deodorizing Filter Media and Filter Frame

Action 1- Electrostatic air purifying filter

Removes microscopic dust, smoke and small invisible particules to keep the room air clean with pre-charged electrostatic polypropylene filter.

Action 2- Deodorizing filter

Remove unwanted smells and odors in the air and keeps the room air fresh with activated carbon filter.



Caution

1. The electrostatic air purifying and deodorizing filter should be replaced once every 6 months or when the filter changes color to brownish, whichever is sooner.
2. Used dusty filters should be disposed and shouldn't be reused, even if it has been cleaned and washed.
3. The filter is a consumable part which you can purchase from your air conditioner dealer.
4. Use the new filter immediately once it has been taken out from its sealed packing. Do not unpack the new filter too early before it is actually used as this may decrease its deodorizing effect.

Engineering and Physical Data

General Data - Cooling Only

| MODEL | OUTDOOR UNIT | | M5MSX 020A | | | |
|---------------------------|------------------------|---------------|----------------------|--|-------------------|--|
| | INDOOR UNIT | | M5WMX 010G | M5WMX 015G | | |
| NOMINAL COOLING CAPACITY | Btu/h | | 19000 (4500 - 21000) | | | |
| | W | | 5570 (1320 - 6150) | | | |
| NOMINAL TOTAL INPUT POWER | W | | 1500 (355 - 1870) | | | |
| NOMINAL RUNNING CURRENT | A | | 6.75 (1.61 - 8.42) | | | |
| POWER SOURCE | V/Ph/Hz | | 220 - 240 / 1 / 50 | | | |
| REFRIGERANT TYPE | | | R410A | | | |
| INDOOR UNIT | CONTROL | AIR DISCHARGE | | LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | | |
| | | OPERATION | | WIRELESS LCD REMOTE CONTROL | | |
| | AIR FLOW | HEIGHT | CFM / L/s | 300 / 141.6 | 330 / 155.7 | |
| | | MEDIUM | CFM / L/s | 250 / 118.0 | 260 / 122.7 | |
| | | LOW | CFM / L/s | 200 / 94.4 | 210 / 99.1 | |
| | SOUND PRESSURE (H/M/L) | | dBA | 39 / 34 / 28 | 42 / 36 / 29 | |
| | UNIT DIMENSION | HEIGHT | mm/in | 260 / 10.2 | | |
| | | WIDTH | mm/in | 899 / 31.5 | | |
| | | DEPTH | mm/in | 198 / 7.8 | | |
| | PACKING DIMENSION | HEIGHT | mm/in | 337 / 13.3 | | |
| | | WIDTH | mm/in | 957 / 37.7 | | |
| | | DEPTH | mm/in | 270 / 10.6 | | |
| UNIT WEIGHT | | kg/lb | 9.4 | | | |
| CONDENSATE DRAIN SIZE | | mm/in | 16 / 0.63 | | | |
| OUTDOOR UNIT | AIR FLOW | | CFM / L/s | 1300 / 613.5 | | |
| | SOUND PRESSURE | | dBA | 52 | | |
| | UNIT DIMENSION | HEIGHT | mm/in | 755.5 / 29.7 | | |
| | | WIDTH | mm/in | 940 / 37.0 | | |
| | | DEPTH | mm/in | 392 / 14.3 | | |
| | PACKING DIMENSION | HEIGHT | mm/in | 790 / 31.1 | | |
| | | WIDTH | mm/in | 1015 / 40.0 | | |
| | | DEPTH | mm/in | 402 / 15.8 | | |
| | UNIT WEIGHT | | kg/lb | 50 / 110.2 | | |
| | PIPE CONNECTION | TYPE | | FLARE | | |
| | | SIZE | LIQUID | mm/in | 2 x (6.35 / ¼") | |
| | | | GAS | mm/in | 2 x (9.52 / 3/8") | |
| REFRIGERANT CHARGE | | kg/lb | 1.65 / 3.64 | | | |

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING IS BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Cooling Only

| MODEL | OUTDOOR UNIT | | M5MSX 025A | | |
|---------------------------|------------------------|-----------------------------|----------------------|-------------------|---|
| | INDOOR UNIT | | M5WMX 010G | M5WMX 015G | |
| NOMINAL COOLING CAPACITY | Btu/h | | 22000 (9000 - 24000) | | |
| | W | | 6450 (2640 - 7030) | | |
| NOMINAL TOTAL INPUT POWER | W | | 1815 (590 - 2200) | | |
| NOMINAL RUNNING CURRENT | A | | 8.13 (3.18 - 9.86) | | |
| POWER SOURCE | V/Ph/Hz | | 220 - 240 / 1 / 50 | | |
| REFRIGERANT TYPE | | | R410A | | |
| INDOOR UNIT | CONTROL | AIR DISCHARGE OPERATION | | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) |
| | | LCD WIRELESS REMOTE CONTROL | | | |
| | AIR FLOW | HIGH | CFM / l/s | 300 / 141.6 | 330 / 155.7 |
| | | MEDIUM | CFM / l/s | 250 / 118.0 | 260 / 122.7 |
| | | LOW | CFM / l/s | 200 / 94.4 | 210 / 99.1 |
| | SOUND PRESSURE (H/M/L) | | dBA | 39 / 34 / 28 | 42 / 36 / 29 |
| | UNIT DIMENSION | HEIGHT | mm/in | 260 / 10.2 | |
| | | WIDTH | mm/in | 899 / 31.5 | |
| | | DEPTH | mm/in | 198 / 7.8 | |
| | PACKING DIMENSION | HEIGHT | mm/in | 337 / 13.3 | |
| | | WIDTH | mm/in | 957 / 37.7 | |
| | | DEPTH | mm/in | 270 / 10.6 | |
| | UNIT WEIGHT | | kg/lb | 9.4 / 20.73 | |
| | CONDENSATE DRAIN SIZE | | mm/in | 16 / 0.63 | |
| | OUTDOOR UNIT | AIR FLOW | | CFM / l/s | 1600 / 755.2 |
| SOUND PRESSURE | | dBA | 53 | | |
| UNIT DIMENSION | | HEIGHT | mm/in | 757 / 29.8 | |
| | | WIDTH | mm/in | 940 / 37.0 | |
| | | DEPTH | mm/in | 392 / 14.3 | |
| PACKING DIMENSION | | HEIGHT | mm/in | 790 / 31.1 | |
| | | WIDTH | mm/in | 1015 / 40.0 | |
| | | DEPTH | mm/in | 402 / 15.8 | |
| UNIT WEIGHT | | kg/lb | 60 / 132.3 | | |
| PIPE CONNECTION | | TYPE | | FLARE | |
| | | SIZE | LIQUID | mm/in | 2 x (6.35 / ¼") |
| | GAS | | mm/in | 2 x (9.52 / 3/8") | |
| REFRIGERANT CHARGE | | | kg/lb | 2.32 / 5.1 | |

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING IS BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Cooling Only

| MODEL | | OUTDOOR UNIT | | M5MSX 025A | | |
|---------------------------|------------------------|--------------|-------------------------|----------------------|---|--|
| | | INDOOR UNIT | | M5WMX 020G | | |
| NOMINAL COOLING CAPACITY | | | Btu/h | 22000 (9000 - 24000) | | |
| | | | W | 6450 (2640 - 7030) | | |
| NOMINAL TOTAL INPUT POWER | | | W | 1815 (590 - 2200) | | |
| NOMINAL RUNNING CURRENT | | | A | 8.13 (3.18 - 9.86) | | |
| POWER SOURCE | | | V/Ph/Hz | 220 - 240 / 1 /50 | | |
| REFRIGERANT TYPE | | | R410A | | | |
| INDOOR UNIT | CONTROL | | AIR DISCHARGE OPERATION | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | | | | LCD WIRELESS REMOTE CONTROL | |
| | AIR FLOW | HIGH | CFM / l/s | 550 / 236.0 | | |
| | | MEDIUM | CFM / l/s | 440 / 207.7 | | |
| | | LOW | CFM / l/s | 370 / 174.6 | | |
| | SOUND PRESSURE (H/M/L) | | dBA | 44 / 40 / 35 | | |
| | UNIT DIMENSION | HEIGHT | mm/in | 304 / 12.0 | | |
| | | WIDTH | mm/in | 1062 / 41.8 | | |
| | | DEPTH | mm/in | 220 / 8.7 | | |
| | PACKING DIMENSION | HEIGHT | mm/in | 378 / 14.9 | | |
| | | WIDTH | mm/in | 1130 / 44.5 | | |
| | | DEPTH | mm/in | 292 / 11.5 | | |
| | UNIT WEIGHT | | kg/lb | 15 / 33.1 | | |
| CONDENSATE DRAIN SIZE | | mm/in | 20 / 0.79 | | | |
| OUTDOOR UNIT | AIR FLOW | | CFM / l/s | 1600 / 755.2 | | |
| | SOUND PRESSURE | | dBA | 53 | | |
| | UNIT DIMENSION | HEIGHT | mm/in | 757 / 29.8 | | |
| | | WIDTH | mm/in | 940 / 37.0 | | |
| | | DEPTH | mm/in | 392 / 14.3 | | |
| | PACKING DIMENSION | HEIGHT | mm/in | 790 / 31.1 | | |
| | | WIDTH | mm/in | 1015 / 40.0 | | |
| | | DEPTH | mm/in | 402 / 15.8 | | |
| | UNIT WEIGHT | | kg/lb | 60 / 132.3 | | |
| | PIPE CONNECTION | TYPE | | FLARE | | |
| | | SIZE | LIQUID | mm/in | 2 x (6.35 / ¼") | |
| GAS | | | mm/in | 2 x (9.52 / 3/8") | | |
| REFRIGERANT CHARGE | | | kg/lb | 2.32 / 5.1 | | |

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING IS BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Cooling Only

| MODEL | OUTDOOR UNIT | | M5MSX030A | | | |
|---------------------------|------------------------|---------------|----------------------|---|--------------|--------------|
| | INDOOR UNIT | | M5WMX010G | M5WMX015G | M5WMX020G | |
| NOMINAL COOLING CAPACITY | Btu/h | | 26000 (4500 - 29000) | | | |
| | W | | 7620 (1320 - 8500) | | | |
| NOMINAL TOTAL INPUT POWER | W | | 2350 (400 - 2815) | | | |
| NOMINAL RUNNING CURRENT | A | | 10.44 (1.81 - 12.50) | | | |
| POWER SOURCE | V/Ph/Hz | | 220 - 240 / 1 / 50 | | | |
| REFRIGERANT TYPE | | | R410A | | | |
| INDOOR UNIT | CONTROL | AIR DISCHARGE | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | | |
| | | OPERATION | | LCD WIRELESS REMOTE CONTROL | | |
| | AIR FLOW | HIGH | CFM / l/s | 300 / 142 | 330 / 157 | 550 / 261 |
| | | MEDIUM | CFM / l/s | 250 / 118 | 260 / 123 | 440 / 208 |
| | | LOW | CFM / l/s | 200 / 95 | 210 / 100 | 370 / 176 |
| | SOUND PRESSURE (H/M/L) | | dBA | 39 / 34 / 28 | 42 / 36 / 29 | 44 / 40 / 35 |
| | UNIT DIMENSION | HEIGHT | mm/in | 260 / 10.2 | | 304 / 12.0 |
| | | WIDTH | mm/in | 899 / 31.5 | | 1062 / 41.8 |
| | | DEPTH | mm/in | 198 / 7.8 | | 220 / 8.7 |
| | PACKING DIMENSION | HEIGHT | mm/in | 337 / 13.3 | | 378 / 14.9 |
| | | WIDTH | mm/in | 957 / 37.7 | | 1130 / 44.5 |
| | | DEPTH | mm/in | 270 / 10.6 | | 292 / 11.5 |
| | UNIT WEIGHT | | kg/lb | 9.4 / 20.7 | | 15 / 33.1 |
| | CONDENSATE DRAIN SIZE | | mm/in | 16 / 0.63 | | 20 / 0.79 |
| OUTDOOR UNIT | AIR FLOW | | CFM / l/s | 1600 / 755.2 | | |
| | SOUND PRESSURE | | dBA | 56 | | |
| | UNIT DIMENSION | HEIGHT | mm/in | 757 / 29.8 | | |
| | | WIDTH | mm/in | 940 / 37.0 | | |
| | | DEPTH | mm/in | 392 / 14.3 | | |
| | PACKING DIMENSION | HEIGHT | mm/in | 793 / 31.3 | | |
| | | WIDTH | mm/in | 985 / 38.8 | | |
| | | DEPTH | mm/in | 410 / 16.2 | | |
| | UNIT WEIGHT | | kg/lb | 72 / 158.7 | | |
| | PIPE CONNECTION | TYPE | | FLARE | | |
| SIZE | | LIQUID | mm/in | 4 x (6.35 / ¼") | | |
| | | GAS | mm/in | 4 x (9.52 / 3/8") | | |
| REFRIGERANT CHARGE | | kg/lb | 3.39 / 7.45 | | | |

1) ALL SPECIFICATIONS ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE.

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING IS BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

| MODEL | OUTDOOR UNIT | | M5MSX 020AR | | |
|-------------------------------------|-------------------------|--------|--|--------------|-------------------|
| | INDOOR UNIT | | M5WMX 010GR | M5WMX 015GR | |
| NOMINAL COOLING CAPACITY | Btu/h | | 19000 (4500 - 21000) | | |
| | W | | 5570 (1320 - 6150) | | |
| NOMINAL HEATING CAPACITY | Btu/h | | 21000 (4500 - 23000) | | |
| | W | | 6150 (1320 - 6740) | | |
| NOMINAL TOTAL INPUT POWER (COOLING) | W | | 1500 (355 - 1870) | | |
| NOMINAL TOTAL INPUT POWER (HEATING) | W | | 1630 (350 - 1950) | | |
| NOMINAL RUNNING CURRENT (COOLING) | A | | 6.75 (1.61 - 8.42) | | |
| NOMINAL RUNNING CURRENT (HEATING) | A | | 7.38 (1.59 - 8.83) | | |
| POWER SOURCE | V/Ph/Hz | | 220 - 240 / 1 / 50 | | |
| REFRIGERANT TYPE | | | R410A | | |
| INDOOR UNIT | CONTROL | | LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | | |
| | AIR DISCHARGE OPERATION | | WIRELESS LCD REMOTE CONTROL | | |
| | AIR FLOW | HIGH | CFM / L/s | 300 / 141.6 | 330 / 155.7 |
| | | MEDIUM | CFM / L/s | 250 / 118.0 | 260 / 122.7 |
| | | LOW | CFM / L/s | 200 / 94.4 | 210 / 99.1 |
| | SOUND PRESSURE (H/M/L) | | dBA | 39 / 34 / 28 | 42 / 36 / 29 |
| | UNIT DIMENSION | HEIGHT | mm/in | 260 / 10.2 | |
| | | WIDTH | mm/in | 899 / 31.5 | |
| | | DEPTH | mm/in | 198 / 7.8 | |
| | PACKING DIMENSION | HEIGHT | mm/in | 337 / 13.3 | |
| | | WIDTH | mm/in | 957 / 37.7 | |
| | | DEPTH | mm/in | 270 / 10.6 | |
| | UNIT WEIGHT | | kg/lb | 9.4 | |
| CONDENSATE DRAIN SIZE | | mm/in | 16 / 0.63 | | |
| OUTDOOR UNIT | AIR FLOW | | CFM / L/s | 1300 / 613.5 | |
| | SOUND PRESSURE | | dBA | 52 | |
| | UNIT DIMENSION | HEIGHT | mm/in | 755.5 / 29.7 | |
| | | WIDTH | mm/in | 940 / 37.0 | |
| | | DEPTH | mm/in | 392 / 14.3 | |
| | PACKING DIMENSION | HEIGHT | mm/in | 790 / 31.1 | |
| | | WIDTH | mm/in | 1015 / 40.0 | |
| | | DEPTH | mm/in | 402 / 15.8 | |
| | UNIT WEIGHT | | kg/lb | 50 / 110.2 | |
| | PIPE CONNECTION | TYPE | | FLARE | |
| | | SIZE | LIQUID | mm/in | 2 x (6.35 / 1/4") |
| | | | GAS | mm/in | 2 x (9.52 / 3/8") |
| | REFRIGERANT CHARGE | | kg/lb | 1.65 / 3.64 | |

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

| MODEL | OUTDOOR UNIT | | M5MSX 025AR | | |
|-------------------------------------|------------------------|---------------|----------------------|---|-----------------|
| | INDOOR UNIT | | M5WMX 010GR | M5WMX 015GR | |
| NOMINAL COOLING CAPACITY | Btu/h | | 22000 (9000 - 24000) | | |
| | W | | 6450 (2640 - 7030) | | |
| NOMINAL HEATING CAPACITY | Btu/h | | 25000 (4500 - 26000) | | |
| | W | | 7330 (1320 - 7620) | | |
| NOMINAL TOTAL INPUT POWER (COOLING) | W | | 1815 (590 - 2200) | | |
| NOMINAL TOTAL INPUT POWER (HEATING) | W | | 1900 (400 - 2155) | | |
| NOMINAL RUNNING CURRENT (COOLING) | A | | 8.13 (3.18 - 9.86) | | |
| NOMINAL RUNNING CURRENT (HEATING) | A | | 8.52 (1.81 - 9.57) | | |
| POWER SOURCE | V/Ph/Hz | | 220 - 240 / 1 / 50 | | |
| REFRIGERANT TYPE | | | R410A | | |
| INDOOR UNIT | CONTROL | AIR DISCHARGE | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | |
| | | OPERATION | | LCD WIRELESS REMOTE CONTROL | |
| | AIR FLOW | HIGH | CFM / //s | 300 / 141.6 | 330 / 155.7 |
| | | MEDIUM | CFM / //s | 250 / 118.0 | 260 / 122.7 |
| | | LOW | CFM / //s | 200 / 94.4 | 210 / 99.1 |
| | SOUND PRESSURE (H/M/L) | | dBA | 39 / 34 / 28 | 42 / 36 / 29 |
| | UNIT DIMENSION | HEIGHT | mm/in | 260 / 10.2 | |
| | | WIDTH | mm/in | 899 / 31.5 | |
| | | DEPTH | mm/in | 198 / 7.8 | |
| | PACKING DIMENSION | HEIGHT | mm/in | 337 / 13.3 | |
| | | WIDTH | mm/in | 957 / 37.7 | |
| | | DEPTH | mm/in | 270 / 10.6 | |
| | UNIT WEIGHT | | kg/lb | 9.4 / 20.73 | |
| | CONDENSATE DRAIN SIZE | | mm/in | 16 / 0.63 | |
| OUTDOOR UNIT | AIR FLOW | | CFM / //s | 1600 / 755.2 | |
| | SOUND PRESSURE | | dBA | 53 | |
| | UNIT DIMENSION | HEIGHT | mm/in | 757 / 29.8 | |
| | | WIDTH | mm/in | 940 / 37.0 | |
| | | DEPTH | mm/in | 392 / 14.3 | |
| | PACKING DIMENSION | HEIGHT | mm/in | 790 / 31.1 | |
| | | WIDTH | mm/in | 1015 / 40.0 | |
| | | DEPTH | mm/in | 402 / 15.8 | |
| | UNIT WEIGHT | | kg/lb | 60 / 132.3 | |
| | PIPE CONNECTION | TYPE | | FLARE | |
| | | SIZE | LIQUID | mm/in | 2 x (6.35 / ¼") |
| GAS | | | mm/in | 2 x (9.52 / 3/8") | |
| REFRIGERANT CHARGE | | kg/lb | 2.32 / 5.1 | | |

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a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

| MODEL | OUTDOOR UNIT | | M5MSX 025AR | |
|-------------------------------------|------------------------|---------------|----------------------|---|
| | INDOOR UNIT | | M5WMX 020GR | |
| NOMINAL COOLING CAPACITY | Btu/h | | 22000 (9000 - 24000) | |
| | W | | 6450 (2640 - 7030) | |
| NOMINAL HEATING CAPACITY | Btu/h | | 25000 (4500 - 26000) | |
| | W | | 7330 (1320 - 7620) | |
| NOMINAL TOTAL INPUT POWER (COOLING) | W | | 1815 (590 - 2200) | |
| NOMINAL TOTAL INPUT POWER (HEATING) | W | | 1900 (400 - 2155) | |
| NOMINAL RUNNING CURRENT (COOLING) | A | | 8.13 (3.18 - 9.86) | |
| NOMINAL RUNNING CURRENT (HEATING) | A | | 8.52 (1.81 - 9.57) | |
| POWER SOURCE | V/Ph/Hz | | 220 - 240 / 1 / 50 | |
| REFRIGERANT TYPE | | | R410A | |
| INDOOR UNIT | CONTROL | AIR DISCHARGE | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) |
| | | OPERATION | | LCD WIRELESS REMOTE CONTROL |
| | AIR FLOW | HIGH | CFM / l/s | 550 / 236.0 |
| | | MEDIUM | CFM / l/s | 440 / 207.7 |
| | | LOW | CFM / l/s | 370 / 174.6 |
| | SOUND PRESSURE (H/M/L) | | dBA | 44 / 40 / 35 |
| | UNIT DIMENSION | HEIGHT | mm/in | 304 / 12.0 |
| | | WIDTH | mm/in | 1062 / 41.8 |
| | | DEPTH | mm/in | 220 / 8.7 |
| | PACKING DIMENSION | HEIGHT | mm/in | 378 / 14.9 |
| | | WIDTH | mm/in | 1130 / 44.5 |
| | | DEPTH | mm/in | 292 / 11.5 |
| | UNIT WEIGHT | | kg/lb | 15 / 33.1 |
| CONDENSATE DRAIN SIZE | | mm/in | 20 / 0.79 | |
| OUTDOOR UNIT | AIR FLOW | | CFM / l/s | 1600 / 755.2 |
| | SOUND PRESSURE | | dBA | 53 |
| | UNIT DIMENSION | HEIGHT | mm/in | 757 / 29.8 |
| | | WIDTH | mm/in | 940 / 37.0 |
| | | DEPTH | mm/in | 392 / 14.3 |
| | PACKING DIMENSION | HEIGHT | mm/in | 790 / 31.1 |
| | | WIDTH | mm/in | 1015 / 40.0 |
| | | DEPTH | mm/in | 402 / 15.8 |
| | UNIT WEIGHT | | kg/lb | 60 / 132.3 |
| | PIPE CONNECTION | TYPE | | FLARE |
| | | SIZE | LIQUID | mm/in |
| GAS | | | mm/in | 2 x (9.52 / 3/8") |
| REFRIGERANT CHARGE | | | kg/lb | 2.32 / 5.1 |

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3) NOMINAL COOLING AND HEATING CAPACITY ARE BASED ON THE CONDITIONS BELOW :

a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

General Data - Heatpump

| MODEL | OUTDOOR UNIT | | M5MSX 030AR | | | |
|-------------------------------------|-------------------------|--------|---|-------------------|-------------------|--------------|
| | INDOOR UNIT | | M5WMX 010GR | M5WMX 015GR | M5WMX 020GR | |
| NOMINAL COOLING CAPACITY | Btu/h | | 26000 (4500 - 29000) | | | |
| | W | | 7620 (1320 - 8500) | | | |
| NOMINAL HEATING CAPACITY | Btu/h | | 28000 (4500 - 32000) | | | |
| | W | | 8210 (1320 - 9380) | | | |
| NOMINAL TOTAL INPUT POWER (COOLING) | W | | 2350 (400 - 2815) | | | |
| NOMINAL TOTAL INPUT POWER (HEATING) | W | | 2030 (400 - 2755) | | | |
| NOMINAL RUNNING CURRENT (COOLING) | A | | 10.44 (1.81 - 12.50) | | | |
| NOMINAL RUNNING CURRENT (HEATING) | A | | 9.0 (1.81 - 12.22) | | | |
| POWER SOURCE | V/Ph/Hz | | 220 - 240 / 1 / 50 | | | |
| REFRIGERANT TYPE | | | R410A | | | |
| INDOOR UNIT | CONTROL | | DOUBLE LOUVER (UP & DOWN) & GRILLE (LEFT & RIGHT) | | | |
| | AIR DISCHARGE OPERATION | | LCD WIRELESS REMOTE CONTROL | | | |
| | AIR FLOW | HIGH | CFM / //s | 300 / 142 | 330 / 157 | 550 / 261 |
| | | MEDIUM | CFM / //s | 250 / 118 | 260 / 123 | 440 / 208 |
| | | LOW | CFM / //s | 200 / 95 | 210 / 100 | 370 / 176 |
| | SOUND PRESSURE (H/M/L) | | dBA | 39 / 34 / 28 | 42 / 36 / 29 | 44 / 40 / 35 |
| | UNIT DIMENSION | HEIGHT | mm/in | 260 / 10.2 | | 304 / 12.0 |
| | | WIDTH | mm/in | 899 / 31.5 | | 1062 / 41.8 |
| | | DEPTH | mm/in | 198 / 7.8 | | 220 / 8.7 |
| | PACKING DIMENSION | HEIGHT | mm/in | 337 / 13.3 | | 378 / 14.9 |
| | | WIDTH | mm/in | 957 / 37.7 | | 1130 / 44.5 |
| | | DEPTH | mm/in | 270 / 10.6 | | 292 / 11.5 |
| | UNIT WEIGHT | | kg/lb | 9.4 / 20.7 | | 15 / 33.1 |
| | CONDENSATE DRAIN SIZE | | mm/in | 16 / 0.63 | | 20 / 0.79 |
| OUTDOOR UNIT | AIR FLOW | | CFM / //s | 1600 / 755.2 | | |
| | SOUND PRESSURE | | dBA | 56 | | |
| | UNIT DIMENSION | HEIGHT | mm/in | 757 / 29.8 | | |
| | | WIDTH | mm/in | 940 / 37.0 | | |
| | | DEPTH | mm/in | 392 / 14.3 | | |
| | PACKING DIMENSION | HEIGHT | mm/in | 793 / 31.3 | | |
| | | WIDTH | mm/in | 985 / 38.8 | | |
| | | DEPTH | mm/in | 410 / 16.2 | | |
| | UNIT WEIGHT | | kg/lb | 72 / 158.7 | | |
| | PIPE CONNECTION | TYPE | | FLARE | | |
| | | SIZE | LIQUID | mm/in | 4 x (6.35 / 1/4") | |
| GAS | | | mm/in | 4 x (9.52 / 3/8") | | |
| REFRIGERANT CHARGE | | kg/lb | 3.39 / 7.45 | | | |

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a) COOLING - 27°C DB / 19°C WB INDOOR AND 35°C DB / 24°C WB OUTDOOR

b) HEATING - 20°C DB INDOOR AND 7°C DB / 6°C WB OUTDOOR

4) SOUND PRESSURE LEVEL ARE ACCORDING TO JIS B 8615 STANDARD. POSITION OF THE MEASUREMENT POINT IS 1m IN FRONT AND 1m BELOW THE UNIT.

Components Data

| MODEL | OUTDOOR UNIT | | M5MSX 020A | | |
|-------------------------|--------------------------|--------------------------------|--|---------------------------------------|--|
| | INDOOR UNIT | | M5WMX 010GR | M5WMX 015G | |
| INDOOR FAN | TYPE | | ANTI FUNGUS CROSS FLOW FAN | | |
| | QUANTITY | | 1 | 1 | |
| | MATERIAL | | ACRYLO NITRILE STYRENE | | |
| | DRIVE | | DIRECT | | |
| | DIAMETER | mm/in | 87 / 3.4 | | |
| | LENGTH | mm/in | 636 / 25.0 | | |
| INDOOR FAN MOTOR | TYPE | | INDUCTION | | |
| | Q'TY | | 1 | | |
| | INDEX OF PROTECTION (IP) | | IP24 | | |
| OUTDOOR FAN | TYPE | | PROPELLER FAN | | |
| | QUANTITY | | 1 | | |
| | MATERIAL | | GLASS REINFORCED ACRYL STYRENE RESIN | | |
| | DRIVE | | DIRECT | | |
| | DIAMETER | mm/in | 460 / 18.11 | | |
| OUTDOOR FAN MOTOR | TYPE | | INDUCTION | | |
| | QUANTITY | | 1 | | |
| | INDEX OF PROTECTION (IP) | | IP24 | | |
| COMPRESSOR | TYPE | | DC BRUSHLESS SCROLL | | |
| | OIL TYPE | | POLYOESTER OIL (POE) | | |
| | OIL AMOUNT | cm ³ / fl.oz | 480 / 16.23 | | |
| INDOOR COIL | TUBE | MATERIAL | | INNER GROOVED SEAMLESS COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | |
| | | THICKNESS | mm/in | 0.28 / 0.011 | |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 | |
| | | FACE AREA | m ² /ft ² | 0.193 / 2.08 | |
| | | ROW | | 2 | |
| | | FIN PER INCH | | 18 | |
| OUTDOOR COIL | TUBE | MATERIAL | | INNER GROOVED SEAMLESS COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | |
| | | THICKNESS | mm/in | 0.32 / 0.013 | |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 | |
| | | FACE AREA | m ² /ft ² | 0.62 / 6.67 | |
| | | ROW | | 2 | |
| | | FIN PER INCH | | 20 | |
| FILTRATION | TYPE | | SARANET | | |
| | QUANTITY | pc | 2 | | |
| | DIMENSION (L x W x t) | mm/in | 386 x 364.3 x 1.5 / 15.2 x 14.3 x 0.06 | | |
| | TYPE | | ANTI-MICROBIAL | | |
| | QUANTITY | pc | 1 | | |
| | DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | | |
| | TYPE | | TITANIUM OXIDE | | |
| | QUANTITY | pc | 1 | | |
| DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | | | |
| CASING | INDOOR UNIT | MATERIAL | HIGH IMPACT POLYSTYRENE | | |
| | | COLOUR | LIGHT GREY | | |
| | OUTDOOR UNIT | MATERIAL | GALVANISED MILD STEEL | | |
| | | COLOUR | LIGHT GREY | | |

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Components Data

| MODEL | OUTDOOR UNIT | | M5MSX 025A | | |
|-------------------------|--------------------------|--------------------------------|--|---------------------------------------|--|
| | INDOOR UNIT | | M5WMX 010G | M5WMX 015G | |
| INDOOR FAN | TYPE | | ANTI FUNGUS CROSS FLOW FAN | | |
| | QUANTITY | | 1 | 1 | |
| | MATERIAL | | ACRYLO NITRILE STYRENE | | |
| | DRIVE | | DIRECT | | |
| | DIAMETER | mm/in | 87 / 3.4 | | |
| | LENGTH | mm/in | 636 / 25.0 | | |
| INDOOR FAN MOTOR | TYPE | | INDUCTION | | |
| | Q'TY | | 1 | | |
| | INDEX OF PROTECTION (IP) | | IP24 | | |
| OUTDOOR FAN | TYPE | | PROPELLER | | |
| | QUANTITY | | 1 | | |
| | MATERIAL | | GLASS REINFORCED ACRLY STYRENE RESIN | | |
| | DRIVE | | DIRECT | | |
| | DIAMETER | mm/in | 460 / 18 | | |
| OUTDOOR FAN MOTOR | TYPE | | INDUCTION | | |
| | QUANTITY | | 1 | | |
| | INDEX OF PROTECTION (IP) | | IP24 | | |
| COMPRESSOR | TYPE | | DC INVERTER TWIN ROTARY | | |
| | OIL TYPE | | POLYVINYLEETHER OIL (PVE) | | |
| | OIL AMOUNT | cm ³ / fl.oz | 800 / 27.05 | | |
| INDOOR COIL | TUBE | MATERIAL | | INNER GROOVED SEAMLESS COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | |
| | | THICKNESS | mm/in | 0.28 / 0.011 | |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 | |
| | | FACE AREA | m ² /ft ² | 0.193 / 2.08 | |
| | | ROW | 2 | | |
| FIN PER INCH | | 18 | | | |
| OUTDOOR COIL | TUBE | MATERIAL | | INNER GROOVED SEAMLESS COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | |
| | | THICKNESS | mm/in | 0.32 / 0.013 | |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 | |
| | | FACE AREA | m ² /ft ² | 0.62 / 6.67 | |
| | | ROW | 2 | | |
| FIN PER INCH | | 20 | | | |
| FILTRATION | TYPE | | SARANET | | |
| | QUANTITY | pc | 2 | | |
| | DIMENSION (L x W x t) | | mm/in | | |
| | | | 386 x 364.3 x 1.5 / 15.2 x 14.3 x 0.06 | | |
| | TYPE | | ANTI-MICROBIAL | | |
| | QUANTITY | pc | 1 | | |
| | DIMENSION (L x W x t) | | mm/in | | |
| | | | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | | |
| TYPE | | TITANIUM OXIDE | | | |
| QUANTITY | pc | 1 | | | |
| DIMENSION (L x W x t) | | mm/in | | | |
| | | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | | | |
| CASING | INDOOR UNIT | MATERIAL | HIGH IMPACT POLYSTYRENE | | |
| | | COLOUR | LIGHT GREY | | |
| | OUTDOOR UNIT | MATERIAL | GALVANISED MILD STEEL | | |
| | | COLOUR | LIGHT GREY | | |

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Components Data

| | | | | |
|-------------------------|--------------------------|--------------------------------|--|---------------------------------------|
| MODEL | OUTDOOR UNIT | | M5MSX 025A | |
| | INDOOR UNIT | | M5WMX 020G | |
| INDOOR FAN | TYPE | | ANTI FUNGUS CROSS FLOW FAN | |
| | QUANTITY | | 1 | |
| | MATERIAL | | ACRYLO NITRILE STYRENE | |
| | DRIVE | | DIRECT | |
| | DIAMETER | mm/in | 87 / 3.4 | |
| | LENGTH | mm/in | 636 / 25.0 | |
| INDOOR FAN MOTOR | TYPE | | INDUCTION | |
| | Q'TY | | 1 | |
| | INDEX OF PROTECTION (IP) | | IP24 | |
| OUTDOOR FAN | TYPE | | PROPELLER | |
| | QUANTITY | | 1 | |
| | MATERIAL | | GLASS REINFORCED ACRYL STYRENE RESIN | |
| | DRIVE | | DIRECT | |
| | DIAMETER | mm/in | 460 / 18 | |
| OUTDOOR FAN MOTOR | TYPE | | INDUCTION | |
| | QUANTITY | | 1 | |
| | INDEX OF PROTECTION (IP) | | IP24 | |
| COMPRESSOR | TYPE | | DC INVERTER TWIN ROTARY | |
| | OIL TYPE | | POLYVINYLETHER OIL (PVE) | |
| | OIL AMOUNT | cm ³ / fl.oz | 800 / 27.05 | |
| INDOOR COIL | TUBE | MATERIAL | | INNER GROOVED SEAMLESS COPPER TUBE |
| | | DIAMETER | mm/in | 7.0 / 0.276 |
| | | THICKNESS | mm/in | 0.28 / 0.011 |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) |
| | | THICKNESS | mm/in | 0.11 / 0.0043 |
| | | FACE AREA | m ² /ft ² | 0.269 / 2.90 |
| | | ROW | | 2 |
| | | FIN PER INCH | | 18 |
| OUTDOOR COIL | TUBE | MATERIAL | | INNER GROOVED SEAMLESS COPPER TUBE |
| | | DIAMETER | mm/in | 7.0 / 0.276 |
| | | THICKNESS | mm/in | 0.32 / 0.013 |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) |
| | | THICKNESS | mm/in | 0.11 / 0.0043 |
| | | FACE AREA | m ² /ft ² | 0.62 / 6.67 |
| | | ROW | | 2 |
| | | FIN PER INCH | | 20 |
| FILTRATION | TYPE | | SARANET | |
| | QUANTITY | pc | 2 | |
| | DIMENSION (L x W x t) | mm/in | 386 x 364.3 x 1.5 / 15.2 x 14.3 x 0.06 | |
| | TYPE | | ANTI-MICROBIAL | |
| | QUANTITY | pc | 1 | |
| | DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | |
| | TYPE | | TITANIUM OXIDE | |
| | QUANTITY | pc | 1 | |
| DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | | |
| CASING | INDOOR UNIT | MATERIAL | HIGH IMPACT POLYSTYRENE | |
| | | COLOUR | LIGHT GREY | |
| | OUTDOOR UNIT | MATERIAL | GALVANISED MILD STEEL | |
| | | COLOUR | LIGHT GREY | |

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Components Data

| MODEL | OUTDOOR UNIT | | M5MSX030A | | | |
|-------------------------|--------------------------|---------------------------------|--|------------------------------------|-----------|--|
| | INDOOR UNIT | | M5WMX010G | M5WMX015G | M5WMX020G | |
| INDOOR FAN | TYPE | | ANTI FUNGUS CROSS FLOW FAN | | | |
| | QUANTITY | | 1 | 1 | 1 | |
| | MATERIAL | | ACRYLO NITRILE STYRENE | | | |
| | DRIVE | | DIRECT | | | |
| | DIAMETER | mm/in | 87 / 3.4 | | | |
| | LENGTH | mm/in | 636 / 25.0 | | | |
| INDOOR FAN MOTOR | TYPE | | INDUCTION | | | |
| | Q'TY | | 1 | | | |
| | INDEX OF PROTECTION (IP) | | IP24 | | | |
| OUTDOOR FAN | TYPE | | PROPELLER | | | |
| | QUANTITY | | 1 | | | |
| | MATERIAL | | GLASS REINFORCED ACRYL STYRENE RESIN | | | |
| | DRIVE | | DIRECT | | | |
| | DIAMETER | mm/in | 460 / 18 | | | |
| OUTDOOR FAN MOTOR | TYPE | | INDUCTION | | | |
| | QUANTITY | | 1 | | | |
| | INDEX OF PROTECTION (IP) | | IP24 | | | |
| COMPRESSOR | TYPE | | DC INVERTER TWIN ROTARY | | | |
| | OIL TYPE | | POLYVINYLETHER OIL (PVE) | | | |
| | OIL AMOUNT | cm ³ / fl.oz | 800 / 27.05 | | | |
| INDOOR COIL | TUBE | MATERIAL | | SEAMLESS INNER GROOVED COPPER TUBE | | |
| | | DIAMETER | mm/in | 7 / 0.276 | | |
| | | THICKNESS | mm/in | 0.28 / 0.011 | | |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC) | | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 | | |
| | | FACE AREA | m ² /ft ² | 0.318 / 3.42 | | |
| | | ROW | | 2 | | |
| | | FIN PER INCH | | 18 | | |
| | | MATERIAL | | INNER GROOVED SEAMLESS COPPER TUBE | | |
| TUBE | DIAMETER | mm/in | 7.0 / 0.276 | | | |
| | THICKNESS | mm/in | 0.32 / 0.013 | | | |
| | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | | | |
| FIN | THICKNESS | mm/in | 0.11 / 0.0043 | | | |
| | FACE AREA | m ² /ft ² | 0.62 / 6.67 + 0.28 / 3.06 | | | |
| | ROW | | 2 + 1 | | | |
| | FIN PER INCH | | 18 | | | |
| FILTRATION | TYPE | | SARANET | | | |
| | QUANTITY | pc | 2 | | | |
| | DIMENSION (L x W x t) | mm/in | 386 x 364.3 x 1.5 / 15.2 x 14.3 x 0.06 | | | |
| | TYPE | | ANTI-MICROBIAL | | | |
| | QUANTITY | pc | 1 | | | |
| | DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | | | |
| | TYPE | | TITANIUM OXIDE | | | |
| | QUANTITY | pc | 1 | | | |
| DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | | | | |
| CASING | INDOOR UNIT | MATERIAL | HIGH IMPACT POLYSTYRENE | | | |
| | | COLOUR | LIGHT GREY | | | |
| | OUTDOOR UNIT | MATERIAL | GALVANISED MILD STEEL | | | |
| | | COLOUR | LIGHT GREY | | | |

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Components Data

| MODEL | OUTDOOR UNIT | | M5MSX 020AR | |
|-------------------------|--------------------------|--------------------------------|--|---------------|
| | INDOOR UNIT | | M5WMX 010GR | M5WMX 015GR |
| INDOOR FAN | TYPE | | ANTI FUNGUS CROSS FLOW FAN | |
| | QUANTITY | | 1 | 1 |
| | MATERIAL | | ACRYLO NITRILE STYRENE | |
| | DRIVE | | DIRECT | |
| | DIAMETER | mm/in | 87 / 3.4 | |
| | LENGTH | mm/in | 636 / 25.0 | |
| INDOOR FAN MOTOR | TYPE | | INDUCTION | |
| | Q'TY | | 1 | |
| | INDEX OF PROTECTION (IP) | | IP24 | |
| OUTDOOR FAN | TYPE | | PROPELLER FAN | |
| | QUANTITY | | 1 | |
| | MATERIAL | | GLASS REINFORCED ACRLY STYRENE RESIN | |
| | DIAMETER | mm/in | 460 / 18.11 | |
| OUTDOOR FAN MOTOR | TYPE | | INDUCTION | |
| | QUANTITY | | 1 | |
| | INDEX OF PROTECTION (IP) | | IP24 | |
| COMPRESSOR | TYPE | | DC BRUSHLESS SCROLL | |
| | OIL TYPE | | POLYOESTER OIL (POE) | |
| | OIL AMOUNT | cm ³ / fl.oz | 480 / 16.23 | |
| INDOOR COIL | TUBE | MATERIAL | INNER GROOVED SEAMLESS COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 |
| | | THICKNESS | mm/in | 0.28 / 0.011 |
| | FIN | MATERIAL | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 |
| | | FACE AREA | m ² /ft ² | 0.193 / 2.08 |
| | | ROW | 2 | |
| FIN PER INCH | | 18 | | |
| OUTDOOR COIL | TUBE | MATERIAL | INNER GROOVED SEAMLESS COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 |
| | | THICKNESS | mm/in | 0.32 / 0.013 |
| | FIN | MATERIAL | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 |
| | | FACE AREA | m ² /ft ² | 0.62 / 6.67 |
| | | ROW | 2 | |
| FIN PER INCH | | 20 | | |
| FILTRATION | TYPE | | SARANET | |
| | QUANTITY | pc | 2 | |
| | DIMENSION (L x W x t) | mm/in | 386 x 364.3 x 1.5 / 15.2 x 14.3 x 0.06 | |
| | TYPE | | ANTI-MICROBIAL | |
| | QUANTITY | pc | 1 | |
| | DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | |
| | TYPE | | TITANIUM OXIDE | |
| | QUANTITY | pc | 1 | |
| DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | | |
| CASING | INDOOR UNIT | MATERIAL | HIGH IMPACT POLYSTYRENE | |
| | | COLOUR | LIGHT GREY | |
| | OUTDOOR UNIT | MATERIAL | GALVANISED MILD STEEL | |
| | | COLOUR | LIGHT GREY | |

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Components Data

| MODEL | OUTDOOR UNIT | | M5MSX 025AR | |
|-------------------------|--------------------------|--------------------------------|--|---------------|
| | INDOOR UNIT | | M5WMX 010GR | M5WMX 015GR |
| INDOOR FAN | TYPE | | ANTI FUNGUS CROSS FLOW FAN | |
| | QUANTITY | | 1 | 1 |
| | MATERIAL | | ACRYLO NITRILE STYRENE | |
| | DRIVE | | DIRECT | |
| | DIAMETER | mm/in | 87 / 3.4 | |
| | LENGTH | mm/in | 636 / 25.0 | |
| INDOOR FAN MOTOR | TYPE | | INDUCTION | |
| | Q'TY | | 1 | |
| | INDEX OF PROTECTION (IP) | | IP24 | |
| OUTDOOR FAN | TYPE | | PROPELLER | |
| | QUANTITY | | 1 | |
| | MATERIAL | | GLASS REINFORCED ACRLY STYRENE RESIN | |
| | DRIVE | | DIRECT | |
| | DIAMETER | mm/in | 460 / 18 | |
| OUTDOOR FAN MOTOR | TYPE | | INDUCTION | |
| | QUANTITY | | 1 | |
| | INDEX OF PROTECTION (IP) | | IP24 | |
| COMPRESSOR | TYPE | | DC INVERTER TWIN ROTARY | |
| | OIL TYPE | | POLYVINYLEETHER OIL (PVE) | |
| | OIL AMOUNT | cm ³ / fl.oz | 800 / 27.05 | |
| INDOOR COIL | TUBE | MATERIAL | INNER GROOVED SEAMLESS COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 |
| | | THICKNESS | mm/in | 0.28 / 0.011 |
| | FIN | MATERIAL | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 |
| | | FACE AREA | m ² /ft ² | 0.193 / 2.08 |
| | | ROW | 2 | |
| | | FIN PER INCH | 18 | |
| OUTDOOR COIL | TUBE | MATERIAL | INNER GROOVED SEAMLESS COPPER TUBE | |
| | | DIAMETER | mm/in | 7.0 / 0.276 |
| | | THICKNESS | mm/in | 0.32 / 0.013 |
| | FIN | MATERIAL | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 |
| | | FACE AREA | m ² /ft ² | 0.62 / 6.67 |
| | | ROW | 2 | |
| | | FIN PER INCH | 20 | |
| FILTRATION | TYPE | | SARANET | |
| | QUANTITY | pc | 2 | |
| | DIMENSION (L x W x t) | mm/in | 386 x 364.3 x 1.5 / 15.2 x 14.3 x 0.06 | |
| | TYPE | | ANTI-MICROBIAL | |
| | QUANTITY | pc | 1 | |
| | DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | |
| | TYPE | | TITANIUM OXIDE | |
| | QUANTITY | pc | 1 | |
| DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | | |
| CASING | INDOOR UNIT | MATERIAL | HIGH IMPACT POLYSTYRENE | |
| | | COLOUR | LIGHT GREY | |
| | OUTDOOR UNIT | MATERIAL | GALVANISED MILD STEEL | |
| | | COLOUR | LIGHT GREY | |

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Components Data

| | | | | |
|-------------------------|--------------------------|--------------------------------|--|---------------------------------------|
| MODEL | OUTDOOR UNIT | | M5MSX 025AR | |
| | INDOOR UNIT | | M5WMX 020GR | |
| INDOOR FAN | TYPE | | | ANTI FUNGUS CROSS FLOW FAN |
| | QUANTITY | | | 1 |
| | MATERIAL | | | ACRYLO NITRILE STYRENE |
| | DRIVE | | | DIRECT |
| | DIAMETER | mm/in | 87 / 3.4 | |
| | LENGTH | mm/in | 636 / 25.0 | |
| INDOOR FAN MOTOR | TYPE | | | INDUCTION |
| | Q'TY | | | 1 |
| | INDEX OF PROTECTION (IP) | | | IP24 |
| OUTDOOR FAN | TYPE | | | PROPELLER |
| | QUANTITY | | | 1 |
| | MATERIAL | | | GLASS REINFORCED ACRLY STYRENE RESIN |
| | DRIVE | | | DIRECT |
| | DIAMETER | mm/in | 460 / 18 | |
| OUTDOOR FAN MOTOR | TYPE | | | INDUCTION |
| | QUANTITY | | | 1 |
| | INDEX OF PROTECTION (IP) | | | IP24 |
| COMPRESSOR | TYPE | | | DC INVERTER TWIN ROTARY |
| | OIL TYPE | | | POLYVINYLEETHER OIL (PVE) |
| | OIL AMOUNT | cm ³ / fl.oz | 800 / 27.05 | |
| INDOOR COIL | TUBE | MATERIAL | | INNER GROOVED SEAMLESS COPPER TUBE |
| | | DIAMETER | mm/in | 7.0 / 0.276 |
| | | THICKNESS | mm/in | 0.28 / 0.011 |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) |
| | | THICKNESS | mm/in | 0.11 / 0.0043 |
| | | FACE AREA | m ² /ft ² | 0.269 / 2.90 |
| | | ROW | 2 | |
| | | FIN PER INCH | 18 | |
| OUTDOOR COIL | TUBE | MATERIAL | | INNER GROOVED SEAMLESS COPPER TUBE |
| | | DIAMETER | mm/in | 7.0 / 0.276 |
| | | THICKNESS | mm/in | 0.32 / 0.013 |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) |
| | | THICKNESS | mm/in | 0.11 / 0.0043 |
| | | FACE AREA | m ² /ft ² | 0.62 / 6.67 |
| | | ROW | 2 | |
| | | FIN PER INCH | 20 | |
| FILTRATION | TYPE | | | SARANET |
| | QUANTITY | pc | 2 | |
| | DIMENSION (L x W x t) | mm/in | 386 x 364.3 x 1.5 / 15.2 x 14.3 x 0.06 | |
| | TYPE | | | ANTI-MICROBIAL |
| | QUANTITY | pc | 1 | |
| | DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | |
| | TYPE | | | TITANIUM OXIDE |
| | QUANTITY | pc | 1 | |
| DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | | |
| CASING | INDOOR UNIT | MATERIAL | HIGH IMPACT POLYSTYRENE | |
| | | COLOUR | LIGHT GREY | |
| | OUTDOOR UNIT | MATERIAL | GALVANISED MILD STEEL | |
| | | COLOUR | LIGHT GREY | |

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Components Data

| MODEL | OUTDOOR UNIT | | M5MSX 030AR | | | |
|-------------------------|--------------------------|--------------------------------|--|---------------------------------------|-------------|--|
| | INDOOR UNIT | | M5WMX 010GR | M5WMX 015GR | M5WMX 020GR | |
| INDOOR FAN | TYPE | | ANTI FUNGUS CROSS FLOW FAN | | | |
| | QUANTITY | | 1 | 1 | 1 | |
| | MATERIAL | | ACRYLO NITRILE STYRENE | | | |
| | DRIVE | | DIRECT | | | |
| | DIAMETER | mm/in | 87 / 3.4 | | | |
| | LENGTH | mm/in | 636 / 25.0 | | | |
| INDOOR FAN MOTOR | TYPE | | INDUCTION | | | |
| | Q'TY | | 1 | | | |
| | INDEX OF PROTECTION (IP) | | IP24 | | | |
| OUTDOOR FAN | TYPE | | PROPELLER | | | |
| | QUANTITY | | 1 | | | |
| | MATERIAL | | GLASS REINFORCED ACRLY STYRENE RESIN | | | |
| | DRIVE | | DIRECT | | | |
| | DIAMETER | mm/in | 460 / 18 | | | |
| OUTDOOR FAN MOTOR | TYPE | | INDUCTION | | | |
| | QUANTITY | | 1 | | | |
| | INDEX OF PROTECTION (IP) | | IP24 | | | |
| COMPRESSOR | TYPE | | DC INVERTER TWIN ROTARY | | | |
| | OIL TYPE | | POLYVINYLEETHER OIL (PVE) | | | |
| | OIL AMOUNT | cm ³ / fl.oz | 800 / 27.05 | | | |
| INDOOR COIL | TUBE | MATERIAL | | SEAMLESS INNER GROOVED COPPER TUBE | | |
| | | DIAMETER | mm/in | 7 / 0.276 | | |
| | | THICKNESS | mm/in | 0.28 / 0.011 | | |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC) | | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 | | |
| | | FACE AREA | m ² /ft ² | 0.318 / 3.42 | | |
| | | ROW | 2 | | | |
| | | FIN PER INCH | 18 | | | |
| OUTDOOR COIL | TUBE | MATERIAL | | INNER GROOVED SEAMLESS COPPER TUBE | | |
| | | DIAMETER | mm/in | 7.0 / 0.276 | | |
| | | THICKNESS | mm/in | 0.32 / 0.013 | | |
| | FIN | MATERIAL | | ALUMINIUM (HYDROPHILIC SLIT FIN TYPE) | | |
| | | THICKNESS | mm/in | 0.11 / 0.0043 | | |
| | | FACE AREA | m ² /ft ² | 0.62 / 6.67 + 0.28 / 3.06 | | |
| | | ROW | 2 + 1 | | | |
| | | FIN PER INCH | 18 | | | |
| FILTRATION | TYPE | | SARANET | | | |
| | QUANTITY | pc | 2 | | | |
| | DIMENSION (L x W x t) | mm/in | 386 x 364.3 x 1.5 / 15.2 x 14.3 x 0.06 | | | |
| | TYPE | | ANTI-MICROBIAL | | | |
| | QUANTITY | pc | 1 | | | |
| | DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | | | |
| | TYPE | | TITANIUM OXIDE | | | |
| | QUANTITY | pc | 1 | | | |
| DIMENSION (L x W x t) | mm/in | 248 x 43 x 5 / 9.8 x 1.7 x 0.2 | | | | |
| CASING | INDOOR UNIT | MATERIAL | HIGH IMPACT POLYSTYRENE | | | |
| | | COLOUR | LIGHT GREY | | | |
| | OUTDOOR UNIT | MATERIAL | GALVANISED MILD STEEL | | | |
| | | COLOUR | LIGHT GREY | | | |

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Performance Data

Capacity Rating

Specifications for M5MSX020A/AR with M5WMX-G/GR

| CONDITION | INDOOR OPERATING UNIT | NOMINAL COOLING CAPACITY | | | | | | | INPUT POWER (W) | RUNNING CURRENT (A) | | | |
|-----------|-----------------------|--------------------------|-----------|-------|---------|--------|--------|-------|--------------------|------------------------|--------|------|--------|
| | | INDIVIDUAL INDOOR | | TOTAL | | | | | | | | | |
| | | A (BTU/h) | B (BTU/h) | BTU/h | | kcal/h | | KW | | | | | |
| | | RATED | RATED | RATED | (MAX) | RATED | (MAX) | RATED | | | (MAX) | | |
| Cooling | 10 | 9000 | - | 9000 | (10000) | 2268 | (2520) | 2.64 | (2.93) | 870 | (960) | 3.92 | (4.32) |
| | 15 | 12000 | - | 12000 | (13000) | 3024 | (3276) | 3.52 | (3.81) | 1145 | (1440) | 5.15 | (6.48) |
| | 10 + 10 | 9000 | 9000 | 18000 | (21000) | 4536 | (5292) | 5.28 | (6.15) | 1420 | (1870) | 6.39 | (8.42) |
| | 10 + 15 | 9000 | 9500 | 18500 | (21000) | 4662 | (5292) | 5.42 | (6.15) | 1460 | (1870) | 6.57 | (8.42) |
| | 15 + 15 | 9500 | 9500 | 19000 | (21000) | 4788 | (5292) | 5.57 | (6.15) | 1500 | (1870) | 6.75 | (8.42) |
| Heating | 10 | 11000 | - | 11000 | (12000) | 2772 | (3024) | 3.22 | (3.52) | 1040 | (1135) | 4.68 | (5.11) |
| | 15 | 13000 | - | 13000 | (15000) | 3276 | (3780) | 3.81 | (4.40) | 1230 | (1660) | 5.54 | (7.47) |
| | 10 + 10 | 10000 | 10000 | 20000 | (23000) | 5040 | (5796) | 5.86 | (6.74) | 1550 | (1950) | 6.98 | (8.78) |
| | 10 + 15 | 10000 | 10500 | 20500 | (23000) | 5166 | (5796) | 6.01 | (6.74) | 1590 | (1950) | 7.16 | (8.78) |
| | 15 + 15 | 10500 | 10500 | 21000 | (23000) | 5292 | (5796) | 6.15 | (6.74) | 1630 | (1950) | 7.34 | (8.78) |

Specifications for M5MSX025A/AR with M5WMX-G/GR

| CONDITION | INDOOR OPERATING | NOMINAL COOLING CAPACITY | | | | | | | | | INPUT POWER (W) | | RUNNING CURRENT (A) | |
|--------------|-------------------|--------------------------|-------|-------|-------|---------|---------|--------|--------|--------|--------------------|--------|------------------------|---------|
| | | INDIVIDUAL INDOOR | | | TOTAL | | | | | | | | | |
| | UNIT (M5WMX-G/GR) | A | B | C | BTU/h | | kcal/h | | KW | | RATED | (MAX) | RATED | (MAX) |
| | | RATED | RATED | RATED | RATED | (MAX) | RATED | (MAX) | RATED | (MAX) | | | | |
| Cooling | 10 | 9000 | - | - | 9000 | (10000) | 2268 | (2520) | 2.64 | (2.93) | 592 | (724) | 3.18 | (3.39) |
| | 15 | 12000 | - | - | 12000 | (13500) | 3024 | (3402) | 3.52 | (3.96) | 969 | (1207) | 4.44 | (5.47) |
| | 20 | 18000 | - | - | 18000 | (19000) | 4536 | (4788) | 5.28 | (5.57) | 1595 | (1944) | 7.22 | (8.71) |
| | 10 + 10 | 9000 | 9000 | - | 18000 | (20000) | 4536 | (5040) | 5.28 | (5.86) | 1474 | (1838) | 6.68 | (8.32) |
| | 10 + 15 | 8000 | 12000 | - | 20000 | (21000) | 5040 | (5292) | 5.86 | (6.15) | 1573 | (2065) | 9.26 | (9.35) |
| | 10 + 20 | 7400 | 14600 | - | 22000 | (24000) | 5544 | (6048) | 6.45 | (7.03) | 1802 | (2205) | 8.08 | (9.86) |
| | 15 + 15 | 11000 | 11000 | - | 22000 | (24000) | 5544 | (6048) | 6.45 | (7.03) | 1814 | (2200) | 8.13 | (9.86) |
| | 15 + 20 | 8800 | 13200 | - | 22000 | (24000) | 5544 | (6048) | 6.45 | (7.03) | 1814 | (2200) | 8.13 | (9.86) |
| | 10 + 10 + 10 | 7300 | 7300 | 7300 | 21900 | (24000) | 5519 | (6048) | 6.42 | (7.03) | 1814 | (2200) | 8.13 | (9.86) |
| | 10 + 10 + 15 | 6600 | 6600 | 8800 | 22000 | (24000) | 5544 | (6048) | 6.45 | (7.03) | 1814 | (2200) | 8.13 | (9.86) |
| | 10 + 10 + 20 | 5500 | 5500 | 11000 | 22000 | (24000) | 5544 | (6048) | 6.45 | (7.03) | 1814 | (2200) | 8.13 | (9.86) |
| | 10 + 15 + 15 | 6020 | 7990 | 7990 | 22000 | (24000) | 5544 | (6048) | 6.45 | (7.03) | 1814 | (2200) | 8.13 | (9.86) |
| | 10 + 15 + 20 | 5080 | 6750 | 10170 | 22000 | (24000) | 5544 | (6048) | 6.45 | (7.03) | 1814 | (2200) | 8.13 | (9.86) |
| | 15 + 15 + 15 | 7350 | 7350 | 7350 | 22050 | (24000) | 5557 | (6048) | 6.46 | (7.03) | 1814 | (2200) | 8.13 | (9.86) |
| | Heating | 10 | 11000 | - | - | 11000 | (12000) | 2772 | (3024) | 3.22 | (3.52) | 1317 | (1618) | 5.97 |
| 15 | | 11000 | - | - | 11000 | (13000) | 2772 | (3276) | 3.22 | (3.81) | 1676 | (2149) | 7.51 | (9.53) |
| 20 | | 19000 | - | - | 19000 | (20000) | 4788 | (5040) | 5.57 | (5.86) | 2133 | (2489) | 9.46 | (11.04) |
| 10 + 10 | | 11000 | 11000 | - | 22000 | (23000) | 5544 | (5796) | 6.45 | (6.74) | 1953 | (2248) | 8.85 | (10.18) |
| 10 + 15 | | 10000 | 13000 | - | 23000 | (24000) | 5796 | (6048) | 6.74 | (7.03) | 2042 | (2346) | 9.16 | (10.40) |
| 10 + 20 | | 8000 | 16000 | - | 24000 | (26000) | 6048 | (6552) | 7.03 | (7.62) | 2033 | (2527) | 9.21 | (11.30) |
| 15 + 15 | | 12000 | 12000 | - | 24000 | (26000) | 6048 | (6552) | 7.03 | (7.62) | 1990 | (2410) | 8.92 | (10.70) |
| 15 + 20 | | 9600 | 14400 | - | 24000 | (26000) | 6048 | (6552) | 7.03 | (7.62) | 1990 | (2410) | 8.92 | (10.70) |
| 10 + 10 + 10 | | 8300 | 8300 | 8300 | 24900 | (26000) | 6275 | (6552) | 7.30 | (7.62) | 1900 | (2155) | 8.52 | (9.57) |
| 10 + 10 + 15 | | 7300 | 7300 | 10400 | 25000 | (26000) | 6300 | (6552) | 7.33 | (7.62) | 1900 | (2155) | 8.52 | (9.57) |
| 10 + 10 + 20 | | 6000 | 6000 | 13000 | 25000 | (26000) | 6300 | (6552) | 7.33 | (7.62) | 1900 | (2155) | 8.52 | (9.57) |
| 10 + 15 + 15 | | 7000 | 9000 | 9000 | 25000 | (26000) | 6300 | (6552) | 7.33 | (7.62) | 1900 | (2155) | 8.52 | (9.57) |
| 10 + 15 + 20 | | 6700 | 7800 | 10500 | 25000 | (26000) | 6300 | (6552) | 7.33 | (7.62) | 1900 | (2155) | 8.52 | (9.57) |
| 15 + 15 + 15 | | 8350 | 8350 | 8350 | 25050 | (26000) | 6312 | (6552) | 7.34 | (7.62) | 1900 | (2155) | 8.52 | (9.57) |

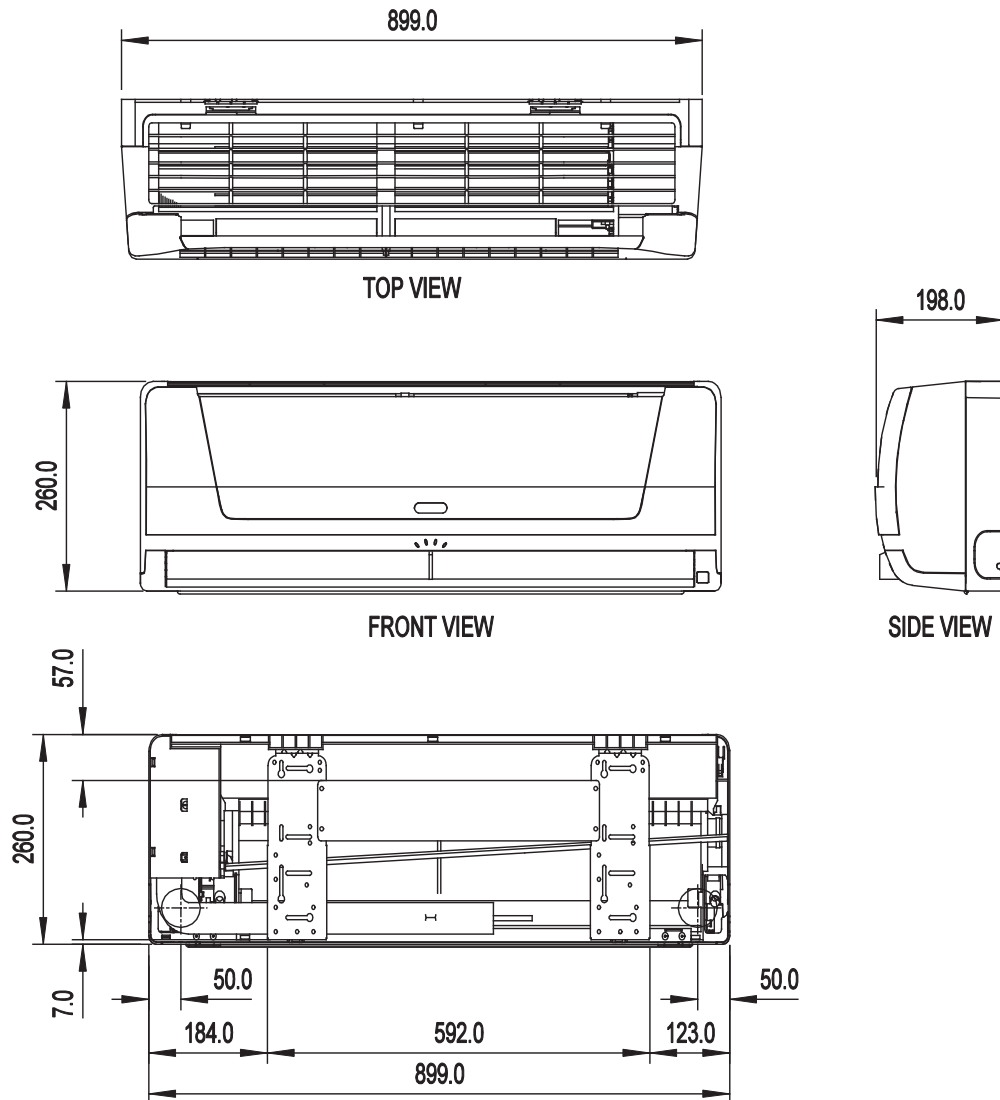
Specifications for M5MSX030A/AR with M5WMX-G/GR

| CONDITION | INDOOR OPERATING UNIT (M5WMX-G/GR) | NOMINAL COOLING CAPACITY | | | | | | | | | INPUT POWER | | RUNNING CURRENT | | |
|-------------------|------------------------------------|--------------------------|-------|-------|-------|---------|---------|--------|--------|--------|-------------|--------|-----------------|---------|---------|
| | | INDIVIDUAL INDOOR | | | | TOTAL | | | | | (W) | | (A) | | |
| | | A | B | C | C | BTU/h | | kcal/h | | KW | | | | | |
| | | RATED | RATED | RATED | RATED | RATED | (MAX) | RATED | (MAX) | RATED | (MAX) | RATED | (MAX) | | |
| Cooling | 10 | 9500 | - | - | - | 9500 | (10800) | 2394 | (2722) | 2.78 | (3.17) | 860 | (1007) | 3.82 | (4.47) |
| | 15 | 12000 | - | - | - | 12000 | (14400) | 3024 | (3629) | 3.52 | (4.22) | 1159 | (1743) | 5.14 | (7.73) |
| | 20 | 18000 | - | - | - | 18000 | (18500) | 4536 | (4662) | 5.28 | (5.42) | 2003 | (2554) | 8.89 | (11.33) |
| | 10 + 10 | 9000 | 9000 | - | - | 18000 | (20000) | 4536 | (5040) | 5.28 | (5.86) | 1657 | (1941) | 7.35 | (8.61) |
| | 10 + 15 | 9000 | 12000 | - | - | 21000 | (23000) | 5292 | (5796) | 6.15 | (6.74) | 2057 | (2233) | 9.13 | (9.90) |
| | 10 + 20 | 8300 | 12500 | - | - | 20800 | (24000) | 5242 | (6048) | 6.10 | (7.03) | 2167 | (2330) | 9.61 | (10.34) |
| | 15 + 15 | 10500 | 10500 | - | - | 21000 | (24000) | 5292 | (6048) | 6.15 | (7.03) | 2167 | (2330) | 9.61 | (10.34) |
| | 15 + 20 | 9300 | 11700 | - | - | 21000 | (24000) | 5292 | (6048) | 6.15 | (7.03) | 2167 | (2330) | 9.61 | (10.34) |
| | 10 + 10 + 10 | 7830 | 7830 | 7830 | - | 23490 | (29000) | 5919 | (7308) | 6.88 | (8.50) | 2128 | (2815) | 9.44 | (12.49) |
| | 10 + 10 + 15 | 7500 | 7500 | 8500 | - | 23500 | (29000) | 5922 | (7308) | 6.89 | (8.50) | 2128 | (2815) | 9.44 | (12.49) |
| | 10 + 10 + 20 | 7150 | 7150 | 10200 | - | 24500 | (29000) | 6174 | (7308) | 7.18 | (8.50) | 2218 | (2815) | 9.84 | (12.49) |
| | 10 + 15 + 15 | 7500 | 8500 | 8500 | - | 24500 | (29000) | 6174 | (7308) | 7.18 | (8.50) | 2218 | (2815) | 9.84 | (12.49) |
| | 10 + 15 + 20 | 6600 | 8500 | 9400 | - | 24500 | (29000) | 6174 | (7308) | 7.18 | (8.50) | 2218 | (2815) | 9.84 | (12.49) |
| | 15 + 15 + 15 | 8166 | 8166 | 8166 | - | 24498 | (29000) | 6173 | (7308) | 7.18 | (8.50) | 2218 | (2815) | 9.84 | (12.49) |
| | 10 + 10 + 10 + 10 | 6500 | 6500 | 6500 | 6500 | 26000 | (29000) | 6552 | (7308) | 7.62 | (8.50) | 2354 | (2815) | 10.44 | (12.49) |
| | 10 + 10 + 10 + 15 | 6000 | 6000 | 6000 | 8000 | 26000 | (29000) | 6552 | (7308) | 7.62 | (8.50) | 2354 | (2815) | 10.44 | (12.49) |
| | 10 + 10 + 10 + 20 | 5100 | 5100 | 5100 | 10700 | 26000 | (29000) | 6552 | (7308) | 7.62 | (8.50) | 2354 | (2815) | 10.44 | (12.49) |
| | 10 + 10 + 15 + 15 | 5300 | 5300 | 7700 | 7700 | 26000 | (29000) | 6552 | (7308) | 7.62 | (8.50) | 2354 | (2815) | 10.44 | (12.49) |
| | 10 + 10 + 15 + 20 | 5000 | 5000 | 6700 | 9300 | 26000 | (29000) | 6552 | (7308) | 7.62 | (8.50) | 2354 | (2815) | 10.44 | (12.49) |
| | 10 + 15 + 15 + 15 | 5000 | 7000 | 7000 | 7000 | 26000 | (29000) | 6552 | (7308) | 7.62 | (8.50) | 2354 | (2815) | 10.44 | (12.49) |
| 15 + 15 + 15 + 15 | 6500 | 6500 | 6500 | 6500 | 26000 | (29000) | 6552 | (7308) | 7.62 | (8.50) | 2354 | (2815) | 10.44 | (12.49) | |
| Heating | 10 | 11000 | - | - | - | 11000 | (13200) | 2772 | (3326) | 3.22 | (3.87) | 1355 | (1975) | 6.01 | (8.76) |
| | 15 | 14000 | - | - | - | 14000 | (16800) | 3528 | (4234) | 4.10 | (4.92) | 1955 | (2949) | 8.67 | (13.08) |
| | 20 | 20000 | - | - | - | 20000 | (22800) | 5040 | (5746) | 5.86 | (6.68) | 2734 | (3697) | 12.13 | (16.40) |
| | 10 + 10 | 11000 | 11000 | - | - | 22000 | (23000) | 5544 | (5796) | 6.45 | (6.74) | 1983 | (2238) | 8.80 | (9.93) |
| | 10 + 15 | 11000 | 13000 | - | - | 24000 | (26000) | 6048 | (6552) | 7.03 | (7.62) | 1983 | (2238) | 8.80 | (9.93) |
| | 10 + 20 | 9500 | 15000 | - | - | 24500 | (32000) | 6174 | (8064) | 7.18 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 15 + 15 | 12250 | 12250 | - | - | 24500 | (28000) | 6174 | (7056) | 7.18 | (8.21) | 2030 | (2755) | 9.01 | (12.22) |
| | 15 + 20 | 10500 | 14000 | - | - | 24500 | (32000) | 6174 | (8064) | 7.18 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 10 + 10 + 10 | 8500 | 8500 | 8500 | - | 25500 | (32000) | 6426 | (8064) | 7.47 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 10 + 10 + 15 | 8000 | 8000 | 9500 | - | 25500 | (32000) | 6426 | (8064) | 7.47 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 10 + 10 + 20 | 6500 | 6500 | 12500 | - | 25500 | (32000) | 6426 | (8064) | 7.47 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 10 + 15 + 15 | 7000 | 9250 | 9250 | - | 25500 | (32000) | 6426 | (8064) | 7.47 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 10 + 15 + 20 | 6000 | 8000 | 11500 | - | 25500 | (32000) | 6426 | (8064) | 7.47 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 15 + 15 + 15 | 8500 | 8500 | 8500 | - | 25500 | (32000) | 6426 | (8064) | 7.47 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 10 + 10 + 10 + 10 | 7000 | 7000 | 7000 | 7000 | 28000 | (32000) | 7056 | (8064) | 8.21 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 10 + 10 + 10 + 15 | 6500 | 6500 | 6500 | 8500 | 28000 | (32000) | 7056 | (8064) | 8.21 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 10 + 10 + 10 + 20 | 5600 | 5600 | 5600 | 11200 | 28000 | (32000) | 7056 | (8064) | 8.21 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 10 + 10 + 15 + 15 | 5500 | 5500 | 8500 | 8500 | 28000 | (32000) | 7056 | (8064) | 8.21 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 10 + 10 + 15 + 20 | 5400 | 5400 | 6200 | 11000 | 28000 | (32000) | 7056 | (8064) | 8.21 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| | 10 + 15 + 15 + 15 | 6025 | 7325 | 7325 | 7325 | 28000 | (32000) | 7056 | (8064) | 8.21 | (9.38) | 2030 | (2755) | 9.01 | (12.22) |
| 15 + 15 + 15 + 15 | 7000 | 7000 | 7000 | 7000 | 28000 | (32000) | 7056 | (8064) | 8.21 | (9.38) | 2030 | (2755) | 9.01 | (12.22) | |

Dimensional Data

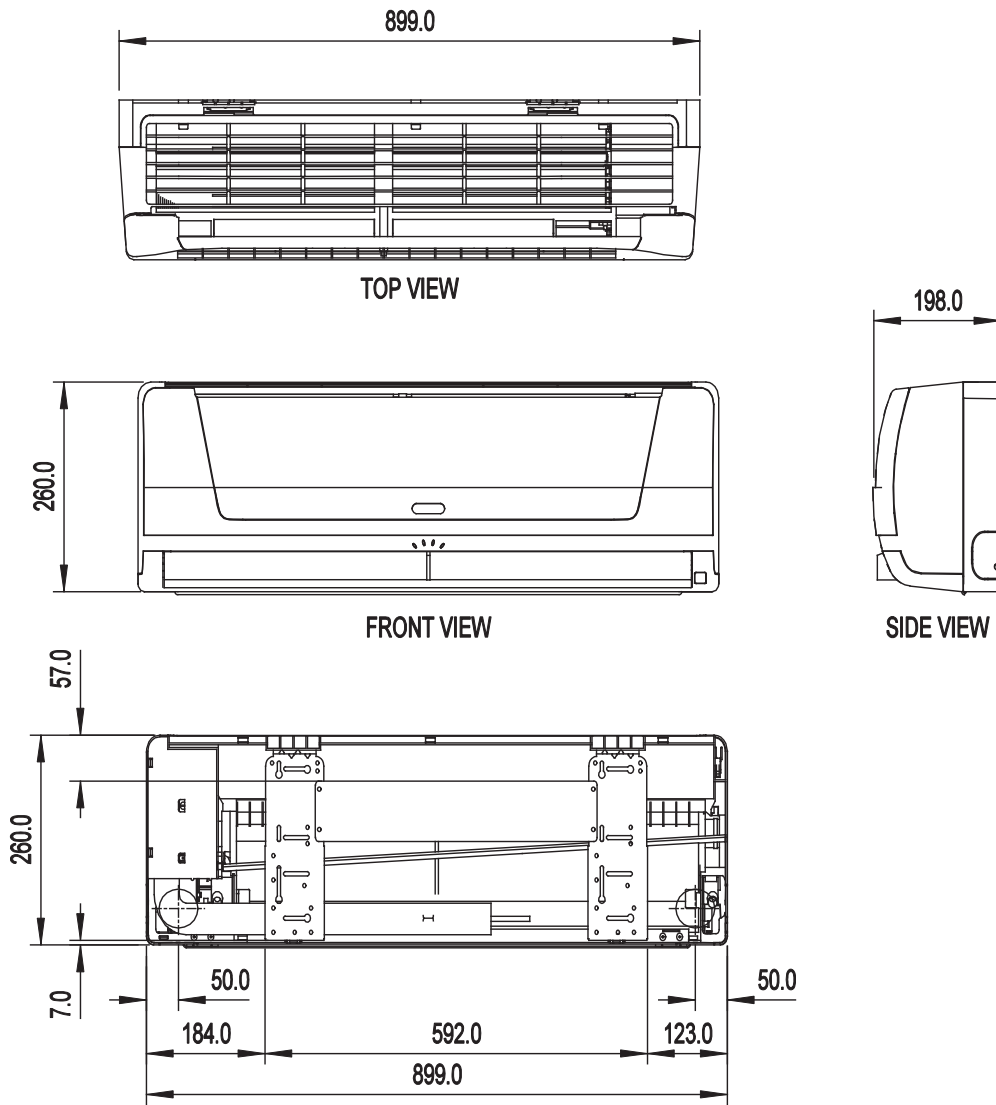
Indoor Unit

Model : M5WMX 010 / 015G/GR



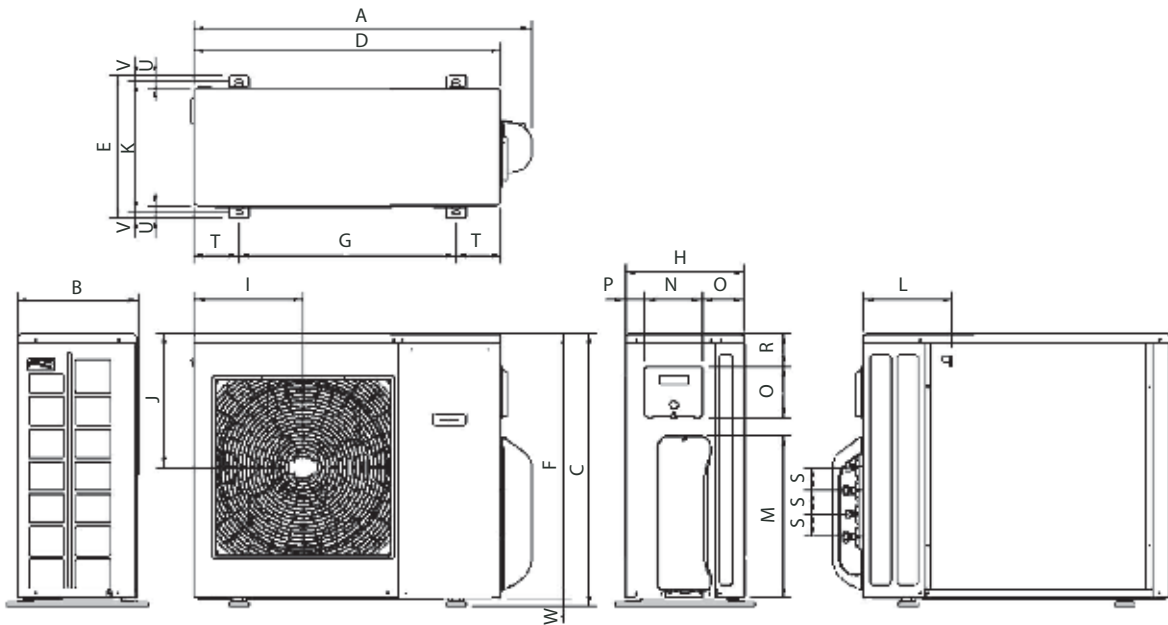
Note: Dimension in mm

Model : M5WMX 020G/GR



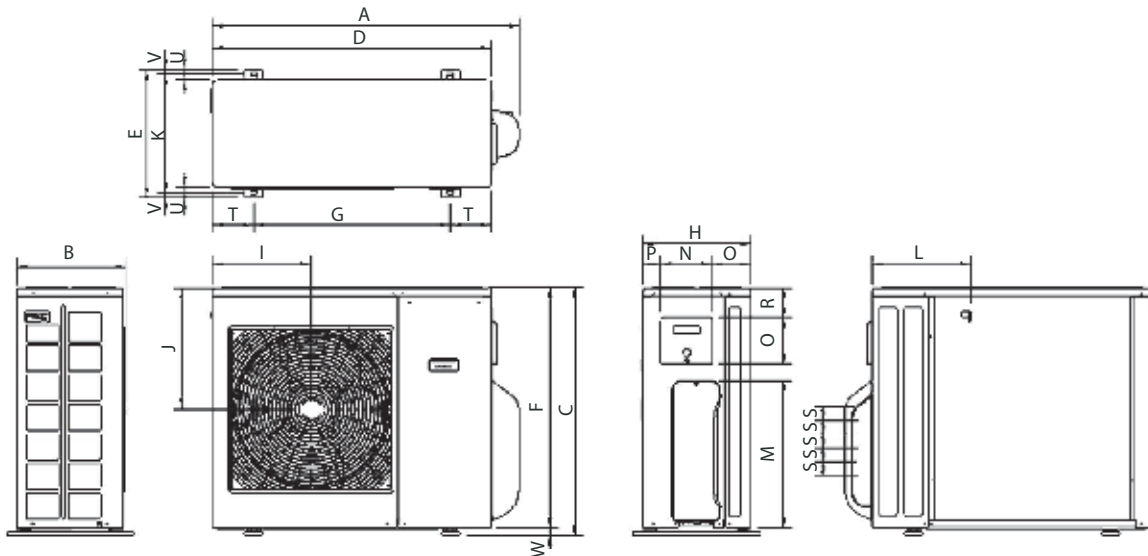
Note: Dimension in mm

Outdoor Unit
Model : M5MSX 020A/AR



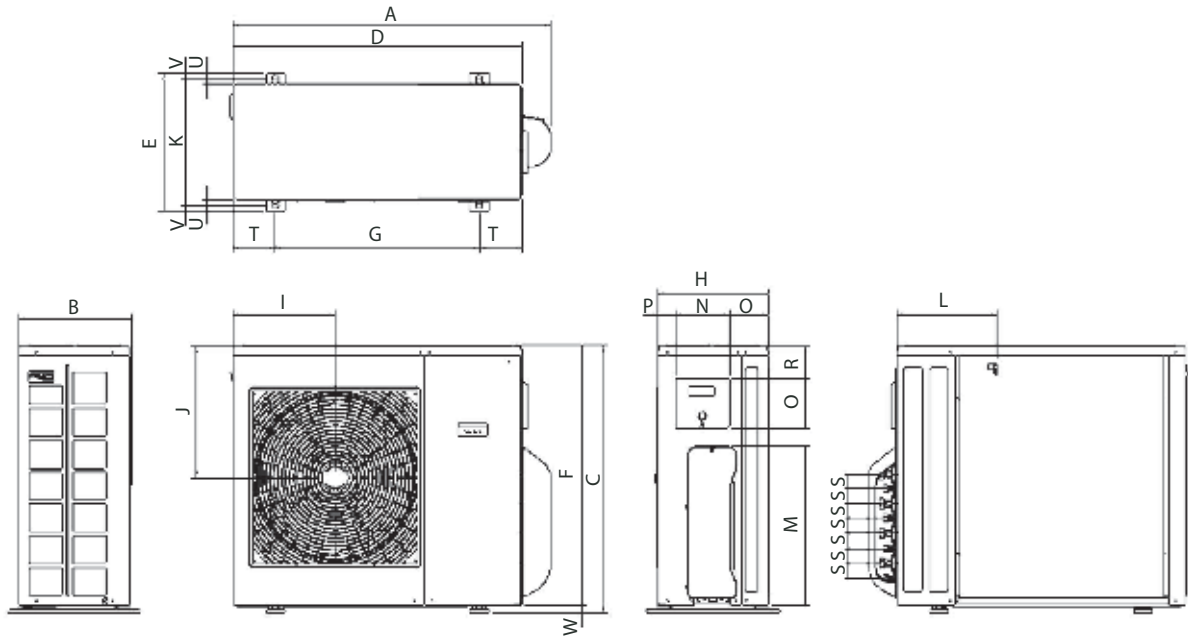
| Dimension | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W |
|----------------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|---------------|--------------|--------------|-------------|--------------|-------------|-------------|------------|-------------|-------------|-------------|
| M5MSX 020A/AR | 939 (37) | 333 (13,1) | 756 (29,8) | 855 (33,7) | 392 (15,4) | 733 (28,9) | 603 (23,7) | 328 (12,9) | 303 (11,9) | 370 (14,6) | 362 (14,3) | 248 (9,8) | 449 (17,7) | 160 (6,3) | 115 (4,5) | 53 (2,1) | 141 (5,6) | 90 (3,5) | 64 (2,5) | 126 (5) | 32 (1,3) | 15 (0,6) | 23 (0,9) |

Outdoor Unit
Model : M5MSX 025A/AR



| Dimension | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W |
|----------------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|-----------|--------------|-------------|-------------|------------|-------------|-------------|-------------|
| M5MSX 025A/AR | 939 (37) | 333 (13,1) | 756 (29,8) | 855 (33,7) | 392 (15,4) | 733 (28,9) | 603 (23,7) | 328 (12,9) | 303 (11,9) | 370 (14,6) | 362 (14,3) | 302 (11,9) | 449 (17,7) | 160 (6,3) | 116 (4,6) | 52 (2) | 141 (5,6) | 42 (1,7) | 64 (2,5) | 126 (5) | 32 (1,3) | 15 (0,6) | 23 (0,9) |

Outdoor Unit
Model : M5MSX 030A/AR



| Dimension | A | B | C | D | E | F | G | H | I | J | K | L | M | N | O | P | Q | R | S | T | U | V | W |
|----------------|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-----|-------|-------|-------|
| M5MSX | 939 | 333 | 756 | 855 | 392 | 733 | 603 | 328 | 303 | 370 | 362 | 298 | 449 | 160 | 115 | 53 | 141 | 42 | 64 | 126 | 32 | 15 | 23 |
| 030A/AR | (37) | (13,1) | (29,8) | (33,7) | (15,4) | (28,9) | (23,7) | (12,9) | (11,9) | (14,6) | (14,3) | (11,7) | (17,7) | (6,3) | (4,5) | (2,1) | (5,6) | (1,7) | (2,5) | (5) | (1,3) | (0,6) | (0,9) |

Electrical Data

Electrical Data - Cooling Only

| MODEL | OUTDOOR UNIT | | M5MSX 020A | |
|---------------|-----------------------|---------|---------------|------------|
| | INDOOR UNIT | | M5WMX 010G | M5WMX 015G |
| INDOOR MOTOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | |
| | RATED INPUT POWER | W | 38 | 40 |
| | RATED RUNNING CURRENT | A | 0.19 | 0.20 |
| | MOTOR OUTPUT | W | 17 | |
| | POLES | | 4P | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | |
| | RATED INPUT POWER | W | 130 | |
| | RATED RUNNING CURRENT | A | 0.58 | |
| | MOTOR OUTPUT | W | 75 | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 0-300/3/0-100 | |
| | CAPACITOR | μF | - | |
| | RATED INPUT POWER | W | 1350 | |
| | RATED RUNNING CURRENT | A | 6.05 | |
| | LOCKED ROTOR AMP. | A | 30 | |

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2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) ALL SPECIFICATION ARE TENTATIVE SPECIFICATION AT THE TIME OF PRINTING. PLEASE CONSULT YOUR DEALER FOR CONFIRMATION.

Electrical Data - Heatpump

| MODEL | OUTDOOR UNIT | | M5MSX 020AR | |
|---------------|---------------------------------|---------|-----------------|-------------|
| | INDOOR UNIT | | M5WMX 010GR | M5WMX 015GR |
| INDOOR MOTOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | |
| | RATED INPUT POWER | W | 38 | 40 |
| | RATED RUNNING CURRENT | A | 0.19 | 0.20 |
| | MOTOR OUTPUT | W | 17 | |
| | POLES | | 4P | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | |
| | RATED INPUT POWER | W | 130 | |
| | RATED RUNNING CURRENT | A | 0.58 | |
| | MOTOR OUTPUT | W | 75 | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 0-300/ 3/ 0-100 | |
| | CAPACITOR | μF | - | |
| | RATED INPUT POWER (COOLING) | W | 1350 | |
| | RATED INPUT POWER (HEATING) | W | 1440 | |
| | RATED RUNNING CURRENT (COOLING) | A | 6.05 | |
| | RATED RUNNING CURRENT (HEATING) | A | 6.45 | |
| | LOCKED ROTOR AMP. | A | 30 | |

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Electrical Data - Cooling Only

| MODEL | OUTDOOR UNIT | | M5MSX 025A | |
|---------------|-----------------------|---------|---------------|--|
| | INDOOR UNIT | | M5WMX 020G | |
| INDOOR MOTOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | |
| | RATED INPUT POWER | W | 60 | |
| | RATED RUNNING CURRENT | A | 0.31 | |
| | MOTOR OUTPUT | W | 40 | |
| | POLES | | 4P | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | |
| | RATED INPUT POWER | W | 140 | |
| | RATED RUNNING CURRENT | A | 0.58 | |
| | MOTOR OUTPUT | W | 80 | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 0-300/3/0-100 | |
| | CAPACITOR | μF | - | |
| | RATED INPUT POWER | W | 1690 | |
| | RATED RUNNING CURRENT | A | 7.5 | |
| | LOCKED ROTOR AMP. | A | 30 | |

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Electrical Data - Cooling Only

| MODEL | OUTDOOR UNIT | | M5MSX 025A | |
|---------------|-----------------------|---------|---------------|------------|
| | INDOOR UNIT | | M5WMX 010G | M5WMX 015G |
| INDOOR MOTOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | |
| | RATED INPUT POWER | W | 38 | 40 |
| | RATED RUNNING CURRENT | A | 0.19 | 0.20 |
| | MOTOR OUTPUT | W | 17 | |
| | POLES | | 4P | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | |
| | RATED INPUT POWER | W | 140 | |
| | RATED RUNNING CURRENT | A | 0.58 | |
| MOTOR OUTPUT | | 80 | | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 0-300/3/0-100 | |
| | CAPACITOR | μF | - | |
| | RATED INPUT POWER | W | 1690 | |
| | RATED RUNNING CURRENT | A | 7.5 | |
| | LOCKED ROTOR AMP. | A | 30 | |

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Electrical Data - HeatPump

| MODEL | OUTDOOR UNIT | | M5MSX 025AR | |
|---------------|---------------------------------|---------|---------------|-------------|
| | INDOOR UNIT | | M5WMX 010GR | M5WMX 015GR |
| INDOOR MOTOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | |
| | RATED INPUT POWER | W | 38 | 40 |
| | RATED RUNNING CURRENT | A | 0.19 | 0.20 |
| | MOTOR OUTPUT | W | 17 | |
| | POLES | | 4P | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | |
| | RATED INPUT POWER | W | 140 | |
| | RATED RUNNING CURRENT | A | 0.58 | |
| | MOTOR OUTPUT | W | 80 | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 0-300/3/0-100 | |
| | CAPACITOR | μF | - | |
| | RATED INPUT POWER (COOLING) | W | 1690 | |
| | RATED INPUT POWER (HEATING) | W | 1700 | |
| | RATED RUNNING CURRENT (COOLING) | A | 7.5 | |
| | RATED RUNNING CURRENT (HEATING) | A | 7.61 | |
| | LOCKED ROTOR AMP. | A | 30 | |

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Electrical Data - HeatPump

| MODEL | OUTDOOR UNIT | | M5MSX 025AR | |
|---------------|---------------------------------|---------|---------------|--|
| | INDOOR UNIT | | M5WMX 020GR | |
| INDOOR MOTOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | |
| | RATED INPUT POWER | W | 60 | |
| | RATED RUNNING CURRENT | A | 0.31 | |
| | MOTOR OUTPUT | W | 40 | |
| | POLES | | 4P | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | |
| | RATED INPUT POWER | W | 140 | |
| | RATED RUNNING CURRENT | A | 0.58 | |
| | MOTOR OUTPUT | W | 80 | |
| COMPRESSOR | INSULATION GRADE | | E | |
| | POWER SOURCE | V/Ph/Hz | 0-300/3/0-100 | |
| | CAPACITOR | μF | - | |
| | RATED INPUT POWER (COOLING) | W | 1690 | |
| | RATED INPUT POWER (HEATING) | W | 1700 | |
| | RATED RUNNING CURRENT (COOLING) | A | 7.5 | |
| | RATED RUNNING CURRENT (HEATING) | A | 7.61 | |
| | LOCKED ROTOR AMP. | A | 30 | |

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Electrical Data - Cooling Only

| MODEL | OUTDOOR UNIT | | M5MSX030A | | |
|---------------|-----------------------|---------|---------------|------------|------------|
| | INDOOR UNIT | | M5WMX 010G | M5WMX 015G | M5WMX 020G |
| INDOOR MOTOR | INSULATION GRADE | | E | | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | | |
| | RATED INPUT POWER | W | 38 | 40 | 60 |
| | RATED RUNNING CURRENT | A | 0.19 | 0.20 | 0.31 |
| | MOTOR OUTPUT | W | 17 | 17 | 40 |
| | POLES | | 4P | | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | | |
| | RATED INPUT POWER | W | 170 | | |
| | RATED RUNNING CURRENT | A | 0.75 | | |
| | MOTOR OUTPUT | W | 80 | | |
| COMPRESSOR | INSULATION GRADE | | E | | |
| | POWER SOURCE | V/Ph/Hz | 0-300/3/0-100 | | |
| | CAPACITOR | μF | - | | |
| | RATED INPUT POWER | W | 1690 | | |
| | RATED RUNNING CURRENT | A | 7.5 | | |
| | LOCKED ROTOR AMP. | A | 30 | | |

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Electrical Data - HeatPump

| MODEL | OUTDOOR UNIT | | M5MSX 030AR | | |
|---------------|---------------------------------|---------|---------------|-------------|-------------|
| | INDOOR UNIT | | M5WMX 010GR | M5WMX 015GR | M5WMX 020GR |
| INDOOR MOTOR | INSULATION GRADE | | E | | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | | |
| | RATED INPUT POWER | W | 38 | 40 | 60 |
| | RATED RUNNING CURRENT | A | 0.19 | 0.20 | 0.31 |
| | MOTOR OUTPUT | W | 17 | 17 | 40 |
| | POLES | | 4P | | |
| OUTDOOR MOTOR | INSULATION GRADE | | B | | |
| | POWER SOURCE | V/Ph/Hz | 230 / 1 / 50 | | |
| | RATED INPUT POWER | W | 170 | | |
| | RATED RUNNING CURRENT | A | 0.75 | | |
| | MOTOR OUTPUT | W | 80 | | |
| COMPRESSOR | INSULATION GRADE | | E | | |
| | POWER SOURCE | V/Ph/Hz | 0-300/3/0-100 | | |
| | CAPACITOR | μF | - | | |
| | RATED INPUT POWER (COOLING) | W | 1690 | | |
| | RATED INPUT POWER (HEATING) | W | 1700 | | |
| | RATED RUNNING CURRENT (COOLING) | A | 7.5 | | |
| | RATED RUNNING CURRENT (HEATING) | A | 7.61 | | |
| | LOCKED ROTOR AMP. | A | 30 | | |

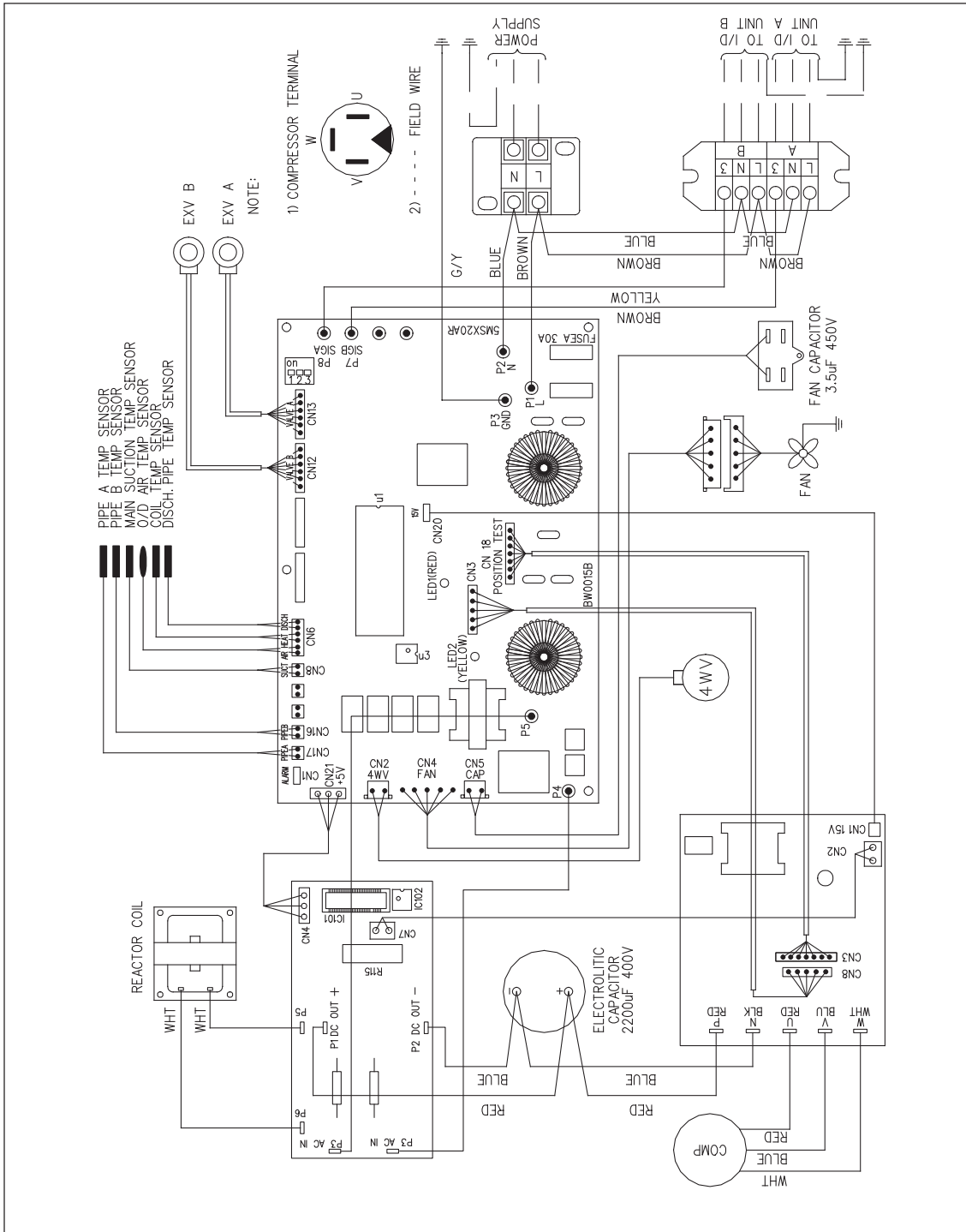
1) ALL SPECIFICATION ARE SUBJECTED TO CHANGE BY THE MANUFACTURER WITHOUT PRIOR NOTICE

2) ALL UNITS ARE BEING TESTED AND COMPLY TO ISO 5151.

3) ALL SPECIFICATION ARE TENTATIVE SPECIFICATION AT THE TIME OF PRINTING. PLEASE CONSULT YOUR DEALER FOR CONFIRMATION.

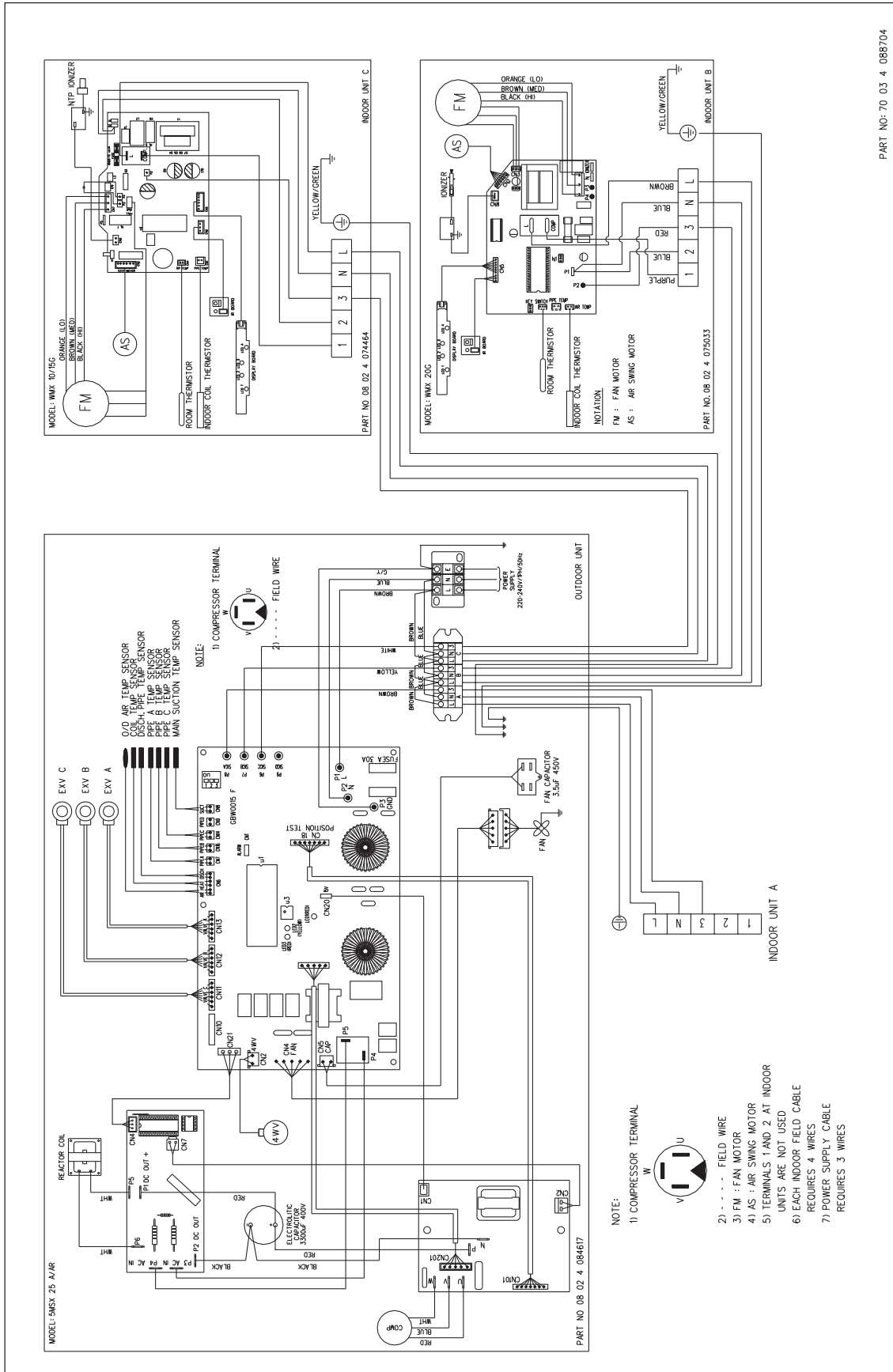
Wiring Diagrams

Indoor Unit Model : M5MSX 020AR



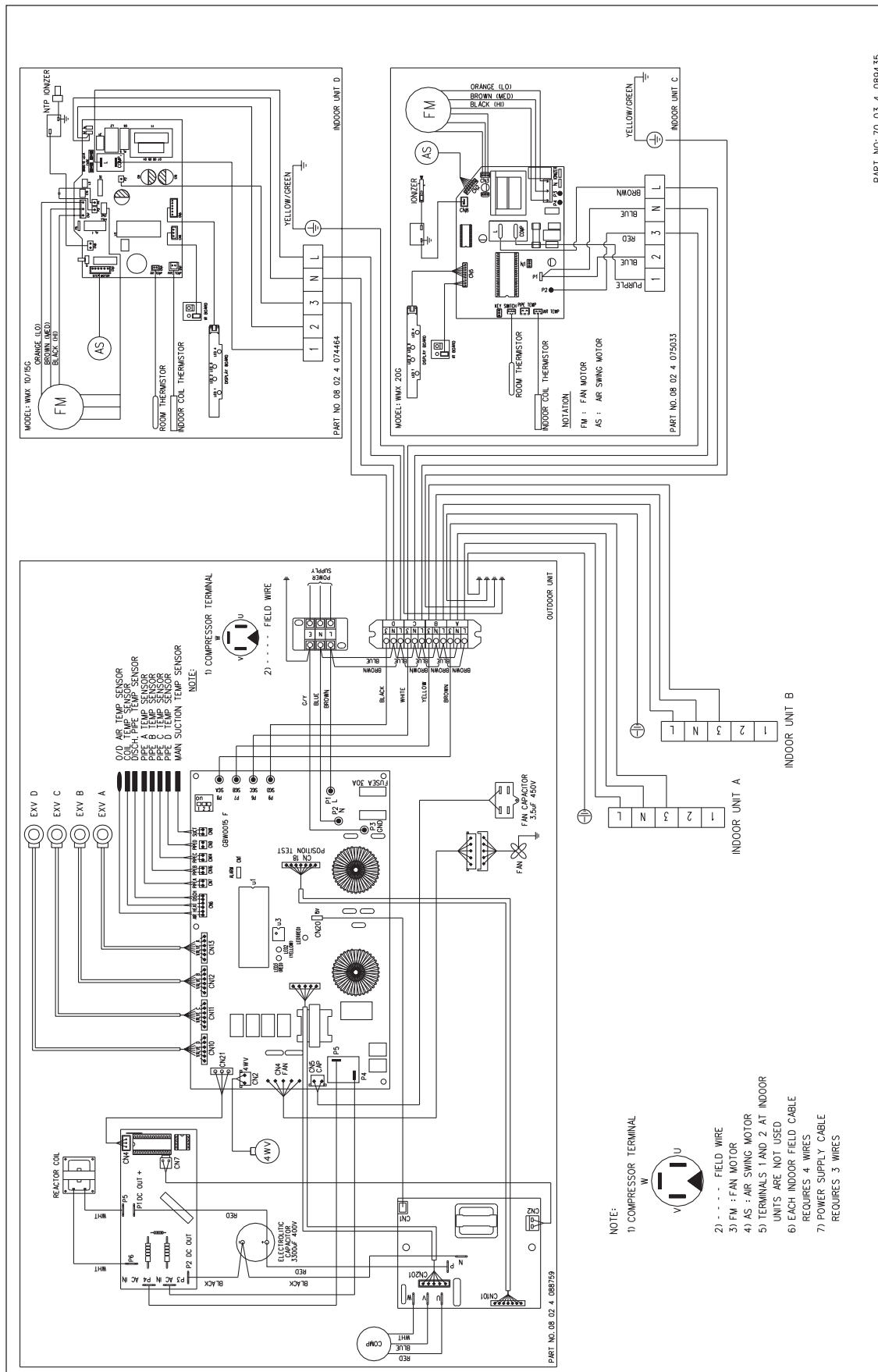
Indoor Unit

Model : M5MSX 025AR



PART NO: 70 03 4 088704

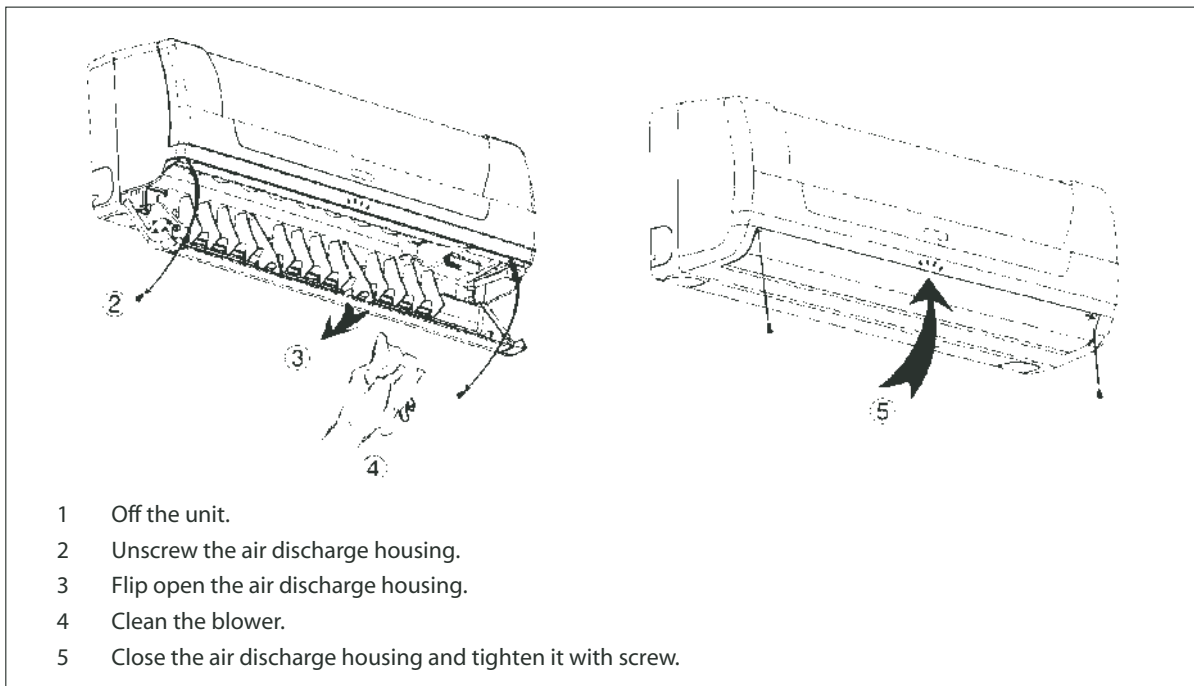
Model : M5MSX 030AR



PART NO. 70 03 4 089435

Servicing and Maintenance

| Service Parts | Maintenance Procedures | Period |
|-------------------|--|---|
| Indoor air filter | <ol style="list-style-type: none"> 1. Remove any dust adhering to the filter by using a vacuum cleaner or wash in lukewarm water (below 40°C) with a neutral cleaning detergent. 2. Rinse the filter well and dry before placing it back onto the unit. 3. Do not use gasoline, volatile substances or chemicals to clean the filter. | At least once every 2 weeks. More frequently if necessary. |
| Indoor unit | <ol style="list-style-type: none"> 1. Clean any dirt or dust on the grille or panel by wiping it off with a soft cloth soaked in lukewarm water (below 40°C) and a neutral detergent solution. 2. Do not use gasoline, volatile substances or chemicals to clean the indoor unit | At least once every 2 weeks. More frequently if necessary. |



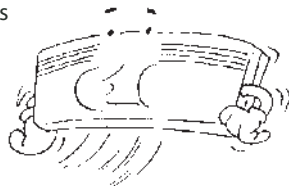
! Caution

Do not operate any heating apparatus too close to the air conditioner unit. This may cause the plastic panel to melt or deform as a result of the excessive heat.

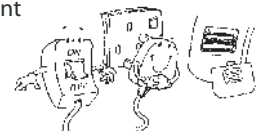
WHEN THE UNIT IS NOT USED FOR AN EXTENDED PERIOD OF TIME

Operate the unit for 2 hours with the following setting.

Operating mode : cool
Temperature : 30°C



Remove the power plug.
If you are using an independent electric circuit for your unit, cut off the circuit.
Remove the batteries in the remote control.



Troubleshooting

If there is any malfunction of the air conditioner unit detected, please switch off the main power supply immediately before proceeding with the following troubleshooting procedures as safety precautions.

The following are some common fault conditions and simple troubleshooting tips. If encounter any faulty conditions which are not listed, please contact nearest dealer or service maintenance. DO NOT attempt to troubleshoot the unit by yourself.

| No | Fault conditions | Possible causes / corrective actions |
|----|--|---|
| 1 | The air conditioner unit will not start straight away after a power failure or restart unit. | <ul style="list-style-type: none"> The air conditioner unit has a 3 minutes restart protection. Please wait for the unit to restart by leaving the main power on. |
| 2 | The compressor does not operate 3 minutes after the air conditioner unit is started. | <ul style="list-style-type: none"> Protection against frequent starting. Wait for 3 or 4 minutes for the compressor to start operating by it self. |
| 3 | The airflow is too slow or room cannot be cooled sufficiently. | <ul style="list-style-type: none"> The air filter is dirty. The doors and windows are opened. The air suction and discharge of both indoor and outdoor units are clogged or blocked. The regulated temperature or temperature setting is not low enough. |
| 4 | Discharge airflow has bad odor. | <ul style="list-style-type: none"> Odour may be cause by cigarettes, smoke particles, perfume and others, which might have adhered onto the coil. Contact your nearest dealer. |
| 5 | Condensation on the front air grille of the indoor unit. | <ul style="list-style-type: none"> This is caused by air humidity after an extended period of operation. The set temperature is too low. Increase the temperature setting and operate the unit at high fan speed. |
| 6 | Water flowing out from the air conditioner. | <ul style="list-style-type: none"> Switch off the unit and contact your nearest dealer. This might be due to tilted installation. |
| 7 | Hissing airflow sound from the air conditioner unit during operation. | <ul style="list-style-type: none"> Liquid refrigerant flowing into the evaporator coil. |
| 8 | The indoor unit's LED indication keeps blinking. | <ul style="list-style-type: none"> Check the fault indication listed under section INDICATOR LIGHTS. If LED display indicates defrost operation, ignore it. This shows that the outdoor unit is defrosting the ice at the outdoor unit. For other LED display, follow the COMPRESSOR STOPPED TROUBLESHOOTING INSTRUCTIONS at next section. |
| 9 | The outdoor unit will not operate and the indoor unit's LED indication does not blink. | <ul style="list-style-type: none"> Power failure or fuse needs to be replaced. Check power supply. The main power plug is disconnected or the circuit breaking is turned off. It is possible that the delay timer has been set incorrectly. If the problem persists after all these verifications, follow the COMPRESSOR STOPPED TROUBLESHOOTING INSTRUCTIONS at next section. |

Normal Running Mode condition

If the air conditioner unit has no faulty indications and the compressor is running at normal mode, the outdoor P.C. Board's LED indication will blink at a slower pace. The table below shows the significant meaning of different running mode and limitation for this air conditioner unit.

One must not attempt to see the LED indication blinking unless instructed to do so.

| Blinks | Blinking Indication |
|--------|---|
| 1 | Normal running, with no limitation |
| 2 | Voltage limit |
| 3 | Cooling unit : Outdoor coil temperature limit Heating unit : Indoor coil temperature limit |
| 4 | Total current limit |
| 5 | Discharge temperature unit |
| 6 | Cooling unit : Indoor coil temperature limit |
| 7 | Indoor fan control |
| 8 | Outdoor frequency adjustment |

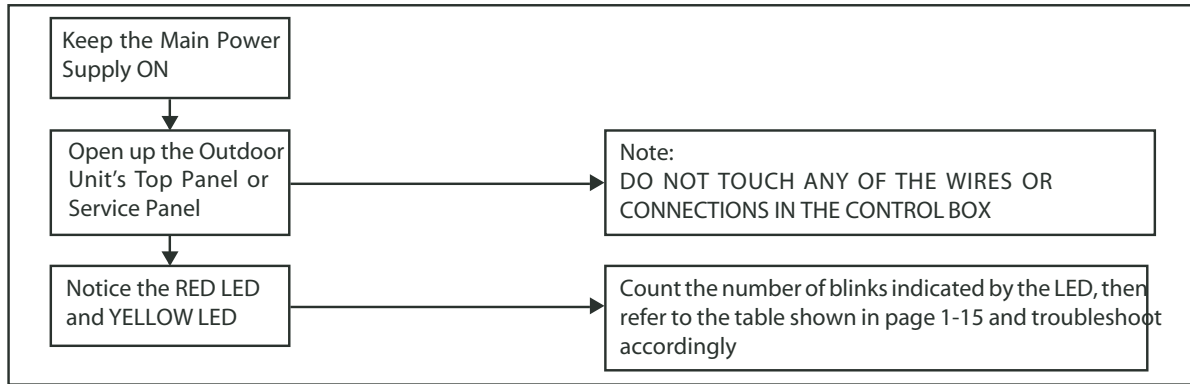
Compressor stopped error indication and troubleshooting guide

If the compressor stop unexpectedly, the outdoor P.C.Board's LED indication will blink accordingly to the error it detects. The table below shows the meaning according to the number of LED blinking and the corrective action that one should take.

| Blink | | Fault Indication | Corrective Action |
|-------|--------|---|---|
| RED | YELLOW | | |
| LED | LED | | |
| 0 | 1 | Outdoor ambient sensor error | Check outdoor ambient sensor wire and connection |
| 0 | 2 | Outdoor coil sensor error | Check outdoor coil sensor wire and connection |
| 0 | 3 | Outdoor discharge sensor error/ Compressor overheat indication | Check outdoor discharge sensor wire and connection/ Check pressure and compressor/Not enough refrigerant/ indoor overload |
| 0 | 4 | DC compressor feedback error | Check compressor wire and feedback wire |
| 0 | 5 | Communication error | Check communication wire and connection for both indoor and outdoor |
| 0 | 6 | Over current error | Check total current:check pressure and compressor |
| 0 | 7 | No load | Ignore |
| 0 | 8 | Over/ under voltage | Check power supply |
| 0 | 9 | DC compressor start failure | Check compressor wire and feedback wire;check compressor |
| 1 | 0 | Cooling overload | Check whether outdoor unit is blocked or not;check pressure |
| 1 | 1 | Defrost | Ignore |
| 1 | 2 | IPM Protection | Check power supply; check main board/filter board; check bridge diode; check IPM board; check compressor |
| 1 | 3 | EEPROM | Check EEPROM chip connection |
| 1 | 4 | EEPROM write error | Check EEPROM chip connection |
| 1 | 5 | DC fan motor no feed back | Check fan motor wire connection |
| 1 | 6 | AC peak current error | |
| 1 | 7 | Outdoor suction sensor error | Check outdoor suction sensor wire and connection |
| 1 | 9 | DC compressor speed control error | Check IPM board; check compressor |
| 2 | 1 | Outdoor suction A sensor error | Check suction sensor wire pipe A and connection |
| 2 | 2 | Outdoor suction B sensor error | Check suction sensor wire pipe B and connection |
| 2 | 3 | Outdoor suction C sensor error | Check suction sensor wire pipe C and connection |
| 2 | 4 | Outdoor suction D sensor error | Check suction sensor wire pipe D and connection |
| 3 | 1 | Indoor A communication error | Check communication wire and connection with indoor A |
| 3 | 2 | Indoor B communication error | Check communication wire and connection with indoor B |
| 3 | 3 | Indoor C communication error | Check communication wire and connection with indoor C |
| 3 | 4 | Indoor D communication error | Check communication wire and connection with indoor D |

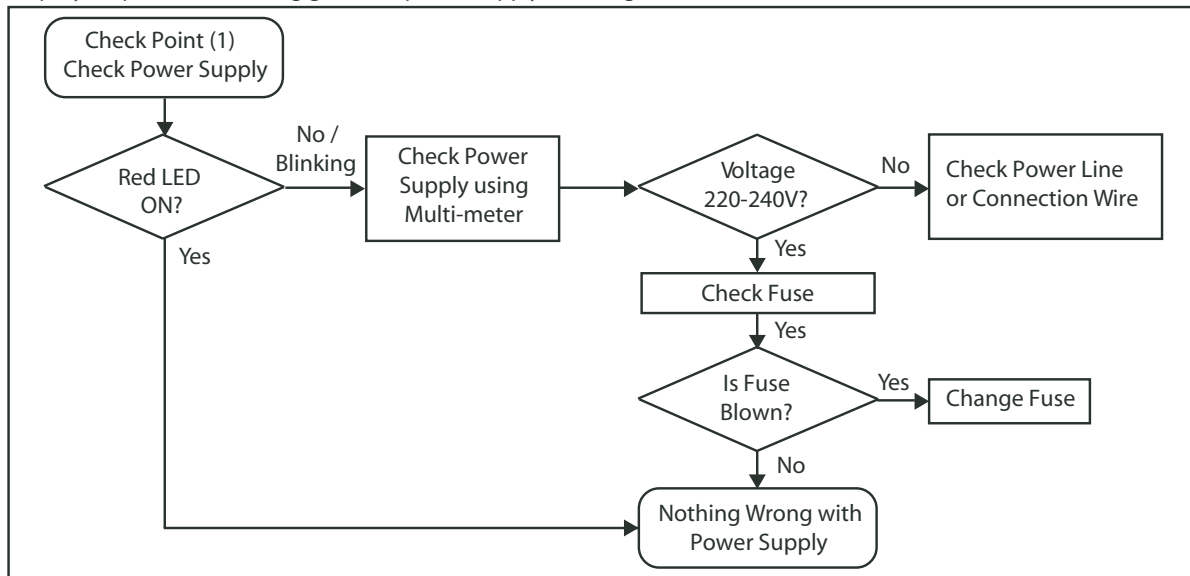
Troubleshooting Progress

If the air conditioner is not operating normally, One should follow the troubleshooting steps as stated in the flow chart below



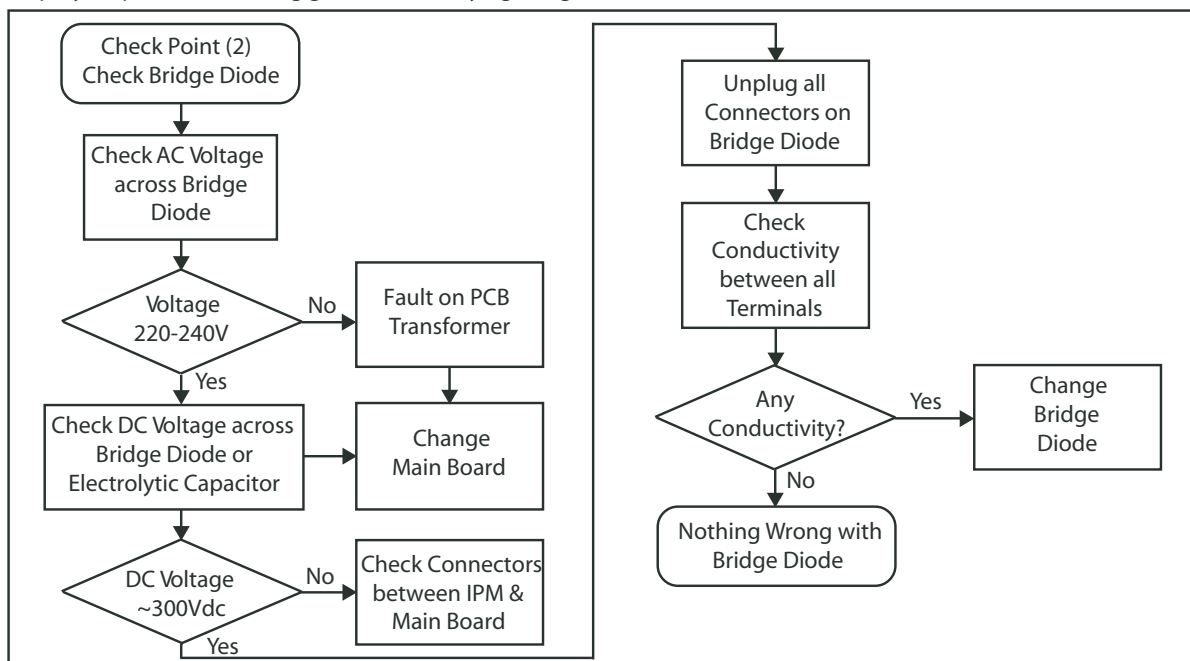
Check Point (1) – Power Supply

Step-by-step troubleshooting guide for power supply checking.



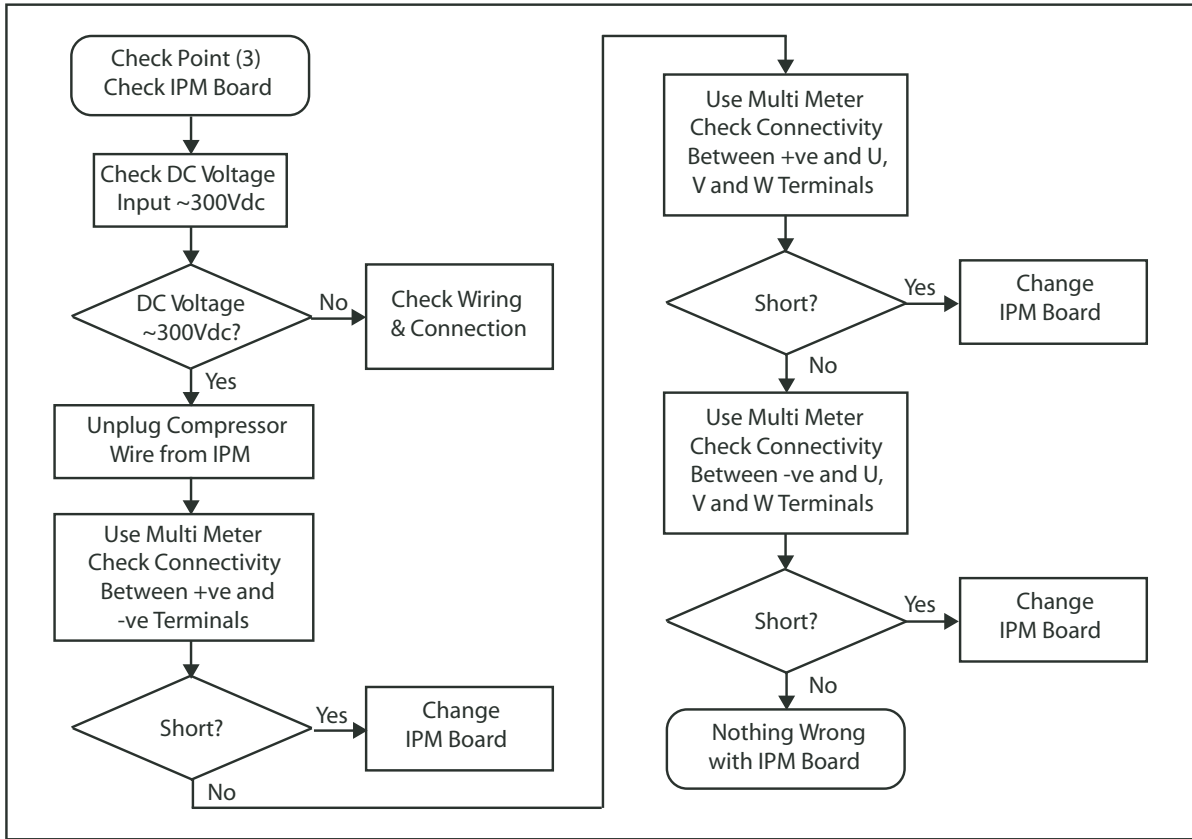
Check Point (2) – Bridge Diode

Step-by-step troubleshooting guide for identifying bridge diode error.



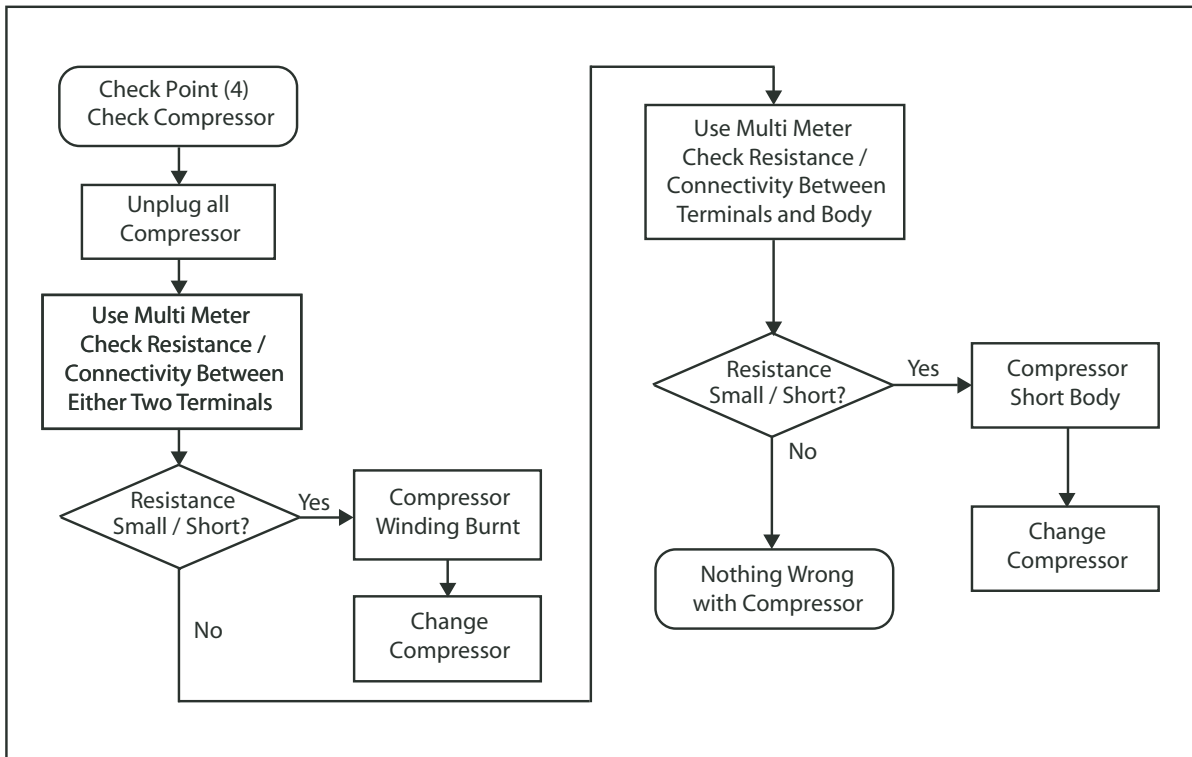
Check Point (3) – IPM Board

Step-by-step troubleshooting guide for identifying IPM Board error.



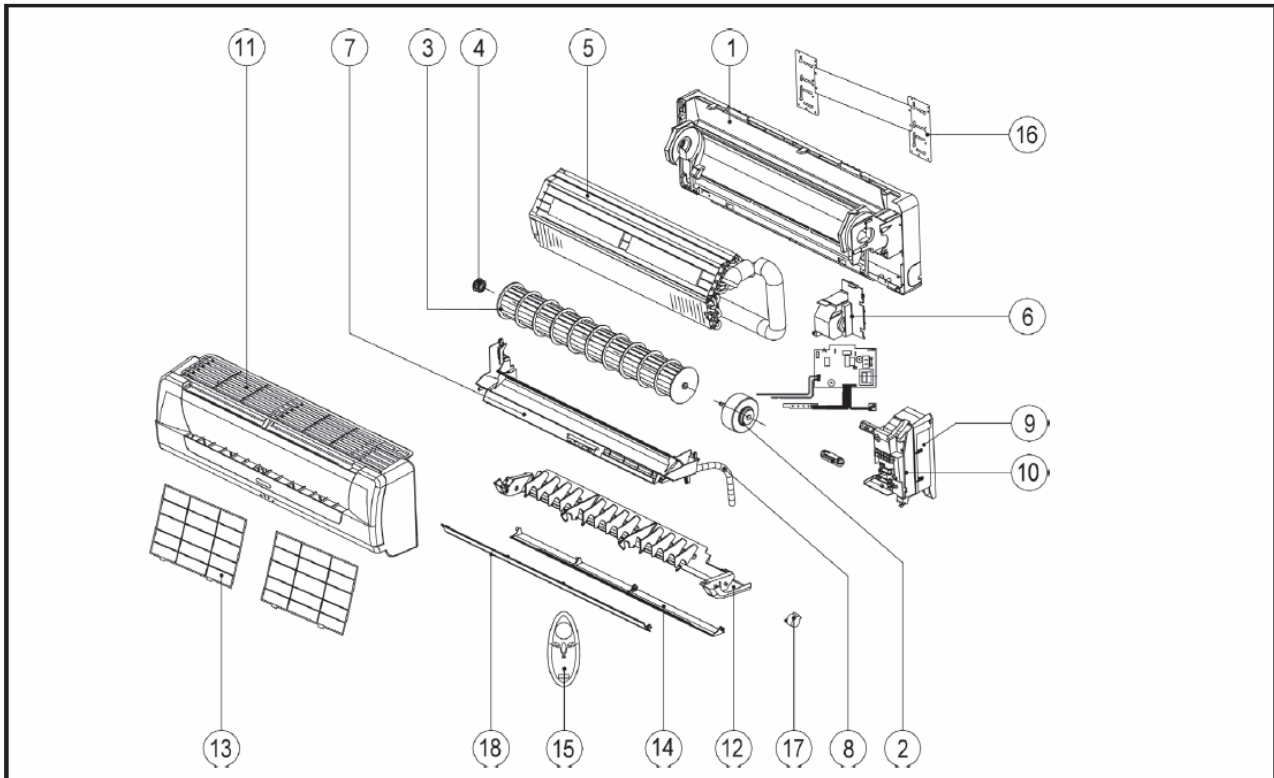
Check Point (4) – Compressor

Step-by-step troubleshooting guide for identifying compressor failure.



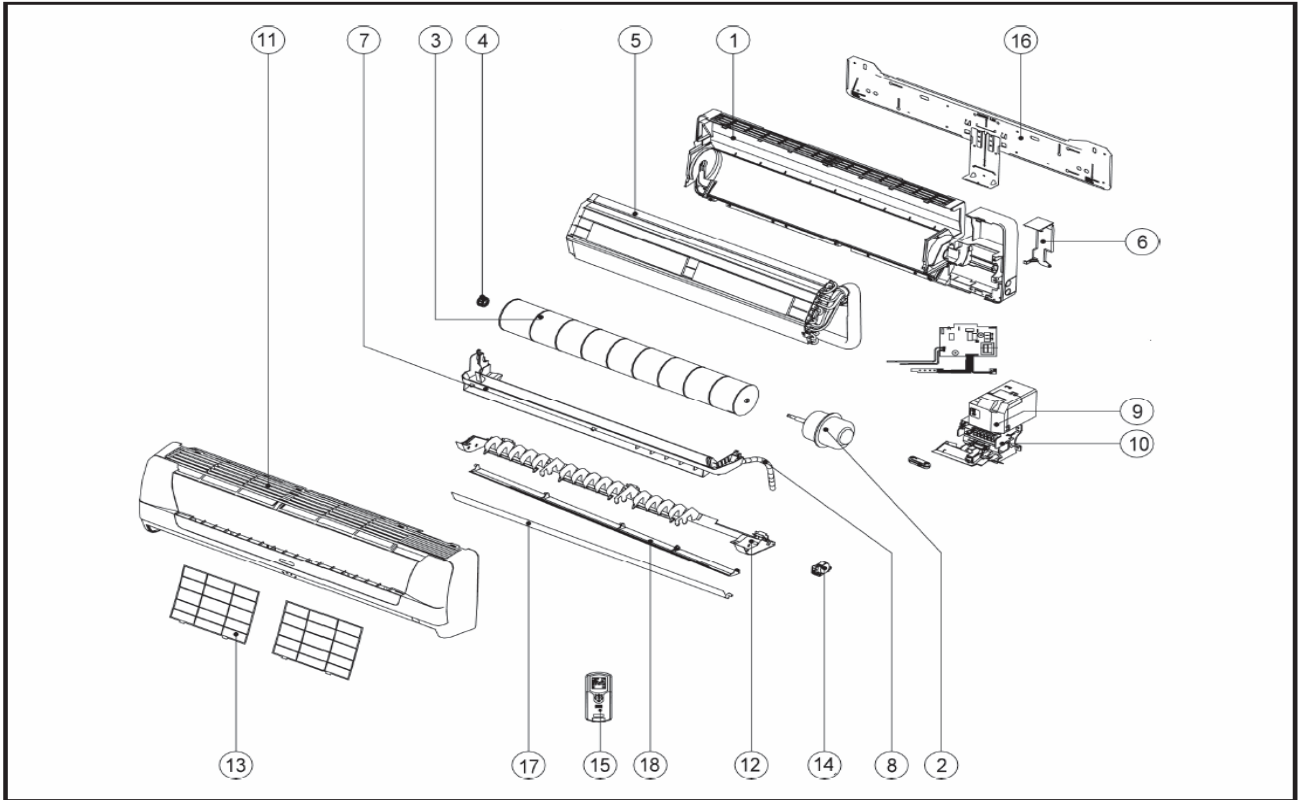
Exploded View and Parts List

Model : M5WMX 010 / 015 G/GR



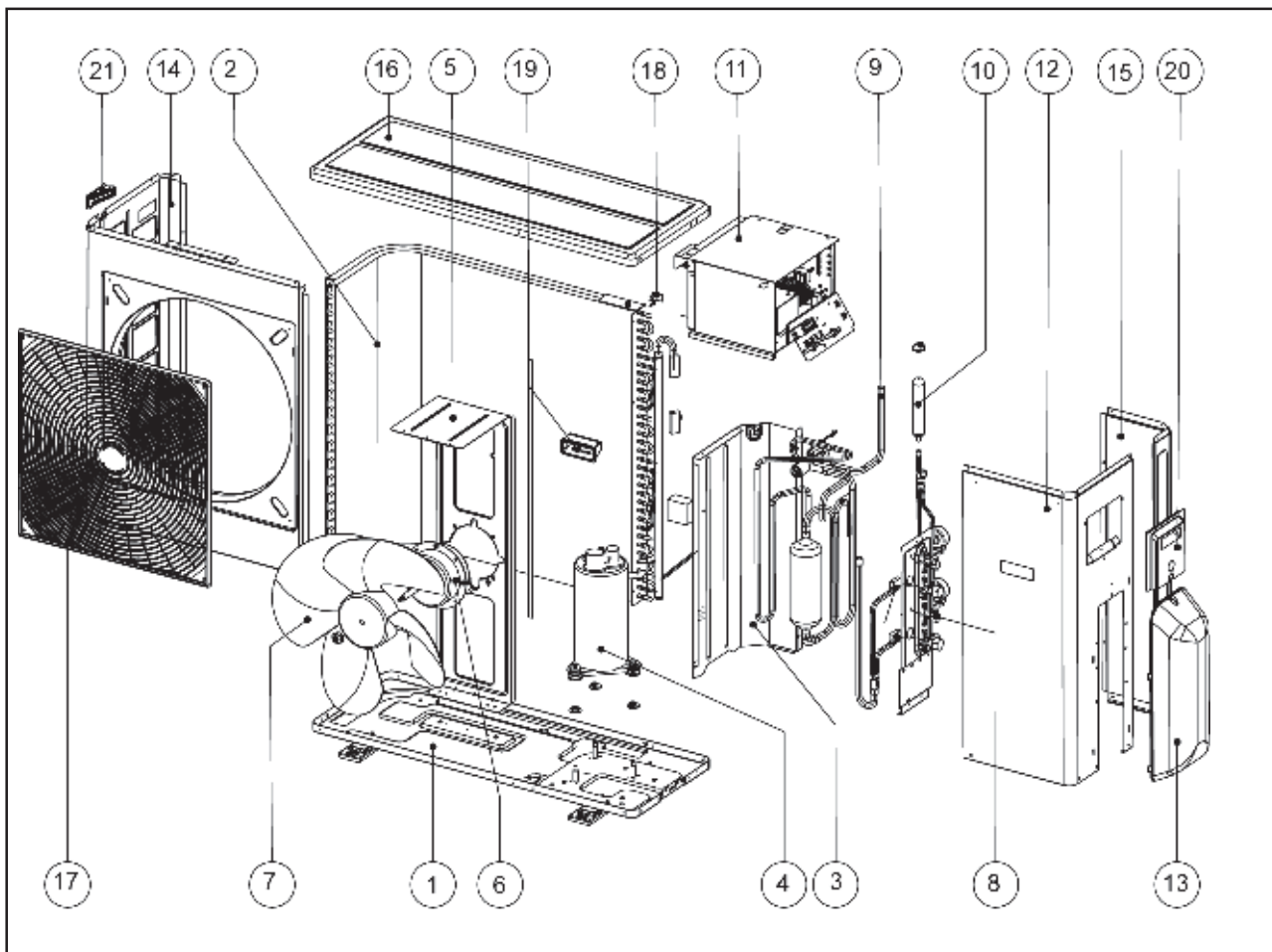
| No | Description | Part Number | Related Model | | | |
|----|-------------------------------------|--------------|---------------|-------------|------------|-------------|
| | | | M5WMX 010G | M5WMX 010GR | M5WMX 015G | M5WMX 015GR |
| 1 | ASSY, CHASSIS 10/15G | R50124064151 | √ | √ | √ | √ |
| 2 | Motor WMX10/15G 17w Welling | R03039022520 | √ | √ | √ | √ |
| 3 | BLOWER,CROSS FLOW G97-717.5 SUNWILL | R03029019461 | √ | √ | √ | √ |
| 4 | FAN BUSH C/FLOW BLACK | R11014029514 | √ | √ | √ | √ |
| 5 | ASSY, INDOOR COIL - WM10GR | R50024064225 | √ | √ | | |
| | ASSY, INDOOR COIL - WM15GR | R50024066054 | | | √ | √ |
| 6 | PIPING CLAMP | R12014060544 | √ | √ | √ | √ |
| 7 | ASSY, DRAIN PAN 10/15G | R50124064152 | √ | √ | √ | √ |
| 8 | DRAIN HOSE WM10/15(600mmL) | R10024018204 | √ | √ | √ | √ |
| 9 | ASSY, CONTROL BOX COVER (AP) | R50124074815 | √ | √ | √ | √ |
| 10 | ASSY, CONTROL BOX 10G-ION OYLT | R50044083997 | √ | | | |
| | ASSY, CONTROL BOX 10GR-ION OYLT | R50044083999 | | √ | | |
| | ASSY, CONTROL BOX 15G-ION OYLT | R50044083998 | | | √ | |
| | ASSY, CONTROL BOX 15GR-ION OYLT | R50044084000 | | | | √ |
| 11 | ASSY., FRONT COVER A 5WMX10/15G/GR | R50124085074 | √ | √ | √ | √ |
| 12 | ASSY, AIR DISCHARGE 10/15 | R50124062326 | √ | √ | √ | √ |
| 13 | FILTER 10/15G | R12014062321 | √ | √ | √ | √ |
| 14 | LOUVER BOTTOM 10/15G | R12014061364 | √ | √ | √ | √ |
| 15 | HANDSET, WIRELESS G11 AP MCQUAY | R04084067314 | √ | √ | √ | √ |
| 16 | ASSY, MOUNTING PLATE 10/15G | R50014062324 | √ | √ | √ | √ |
| 17 | MOTOR, AIR SWING WM10/15G | R03039021375 | √ | √ | √ | √ |
| 18 | LOUVER TOP 10/15G | R12014061363 | √ | √ | √ | √ |

Model : M5WMX 020G/GR



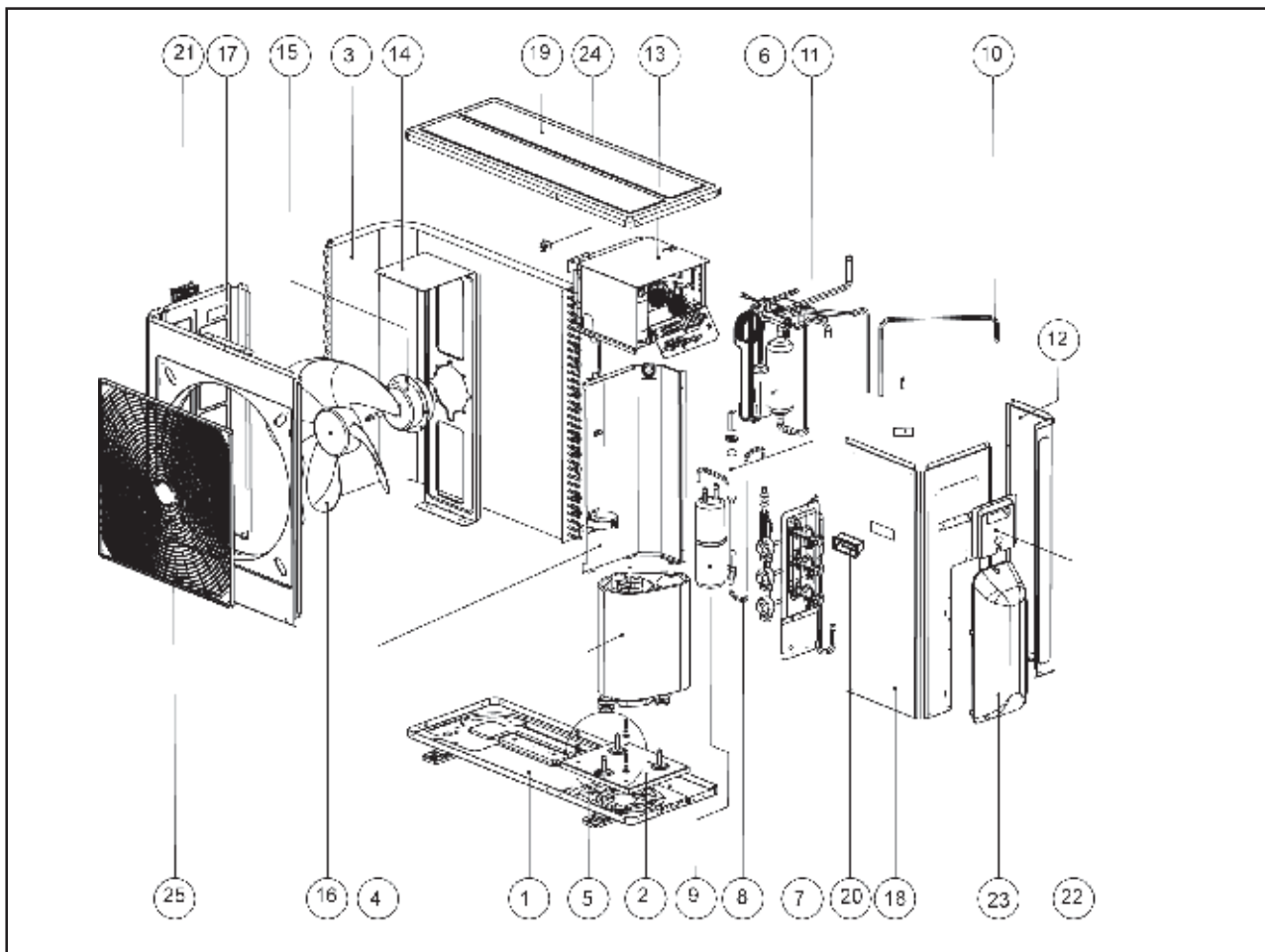
| No | Description | Part Number | Related Model | |
|----|---|--------------|---------------|-------------|
| | | | M5WMX 020G | M5WMX 020GR |
| 1 | Assy, Chassis WM20/25G | R50124068170 | √ | √ |
| 2 | Motor, MWMX20/20G | R50034074747 | √ | √ |
| 3 | FAN CROSS FLOW, WM20/25F | R03029029158 | √ | √ |
| 4 | Fan Bush C/Flow Grey | R11014023775 | √ | √ |
| 5 | Assy, Coil WM20G/GR / 5WM25G/R | R50024072203 | √ | √ |
| 6 | Clamp, Piping 20/25G | R12014071297 | √ | √ |
| 7 | Assy, Drain Pan 20/25G | R50124068171 | √ | √ |
| 8 | Drain Hose Assy WM20C/25C(700mmL) | R10024015319 | √ | √ |
| 9 | Assy, Control Box Cover 20/25G (EC) | R50124074814 | √ | √ |
| 10 | ASSY, CONTROL BOX (ION 5WMX 20G) | R50044085630 | √ | |
| | ASSY, CONTROL BOX (ION 5WMX 20GR) | R50044085632 | | √ |
| 11 | ASSY,F/COVER-A | R50124074743 | √ | √ |
| 12 | ASSY, AIR DISCHARGE 20/25G | R50124071426 | √ | √ |
| 13 | FILTER, NANOSILVER 20/25G (WITH FRAME) | R12014080142 | √ | √ |
| | FILTER, NANOVIS 20/25G (WITH FRAME) | R12014080144 | √ | √ |
| 14 | Motor, MP35 WM20/25G | R03039022933 | √ | √ |
| 15 | HANDSET, WIRELESS G11 EC W/IONIZER MCQUAY | R04084065334 | √ | √ |
| 16 | Assy, Mtg Plate WM20/25F | R50014036133 | √ | √ |
| 17 | Louver, Top 20/25G | R12014066820 | √ | √ |
| 18 | Louver, Bottom 20/25G | R12014066821 | √ | √ |

Model : M5MSX 020A/AR



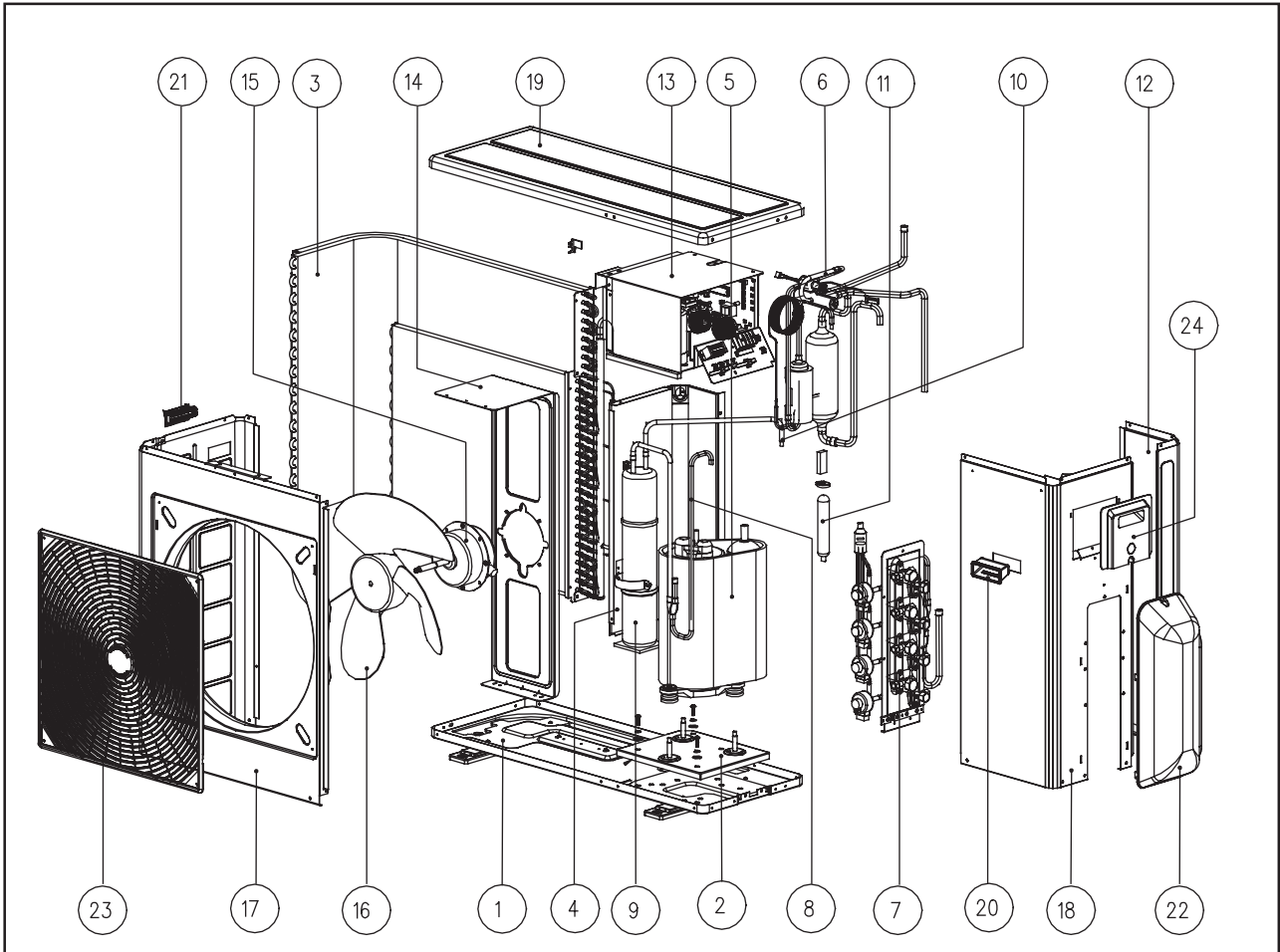
| No | Description | Part Number | Related Model | |
|-----------------------------|--------------------------------------|--------------|---------------|------------|
| | | | M5MSX 020A | M5MSX020AR |
| 1 | Assy, Base Pan (5SLX20/25CR) | R50014073830 | √ | √ |
| 2 | Assy, Condenser Coil (5MSX20AR) | R50024071636 | √ | √ |
| 3 | Panel, Partition | R01014072818 | √ | √ |
| 4 | Assy, Comprssor 5CS130XCC03 | R50049024264 | √ | √ |
| 5 | Bracket Motor (SL25C/28C/CR) | R01014070948 | √ | √ |
| 6 | Motor, M5MSX20AR-501-K 64W | R03039024770 | √ | √ |
| 7 | Fan Propeller, Ø460 0Z40700 | R03019023393 | √ | √ |
| 8 | ASSY., VALVE BRACKET | R50024088110 | √ | |
| | Assy, Valve Bracket (5MSX20AR) | R50024074217 | | √ |
| 9 | Assy, 4Way Valve(5MSX20AR) | R50024074210 | √ | √ |
| 10 | Filter Drier, STS2258 KYOSEKI SANGYO | R02169024287 | √ | √ |
| 11 | ASSY, CONTROL BOX (5MSX20A) | R50044088427 | √ | |
| | Assy, Control Box (5MSX20AR) | R50044072830 | | √ |
| 12 | Assy, Panel Service | R50014076979 | √ | √ |
| 13 | Valve Cover, MSD/MSH/MST | R12014057544 | √ | √ |
| 14 | Panel Front / Left | R01014070947 | √ | √ |
| 15 | Panel Right Back (SL25C/28C/CR) | R01014070950 | √ | √ |
| 16 | Panel Top (SL20C/25C/28C/CR) | R01014070596 | √ | √ |
| 17 | Assy Front Grille (SL20C/25C/28C/CR) | R50124072880 | √ | √ |
| 18 | Thermister Holder WM10/15 | R12014016707 | √ | √ |
| 19 | Plastic,Handle SL07C/09C/10C/15C/CR | R12014057948 | √ | √ |
| 20 | Access Panel C/W Ins SL | R50124017615 | √ | √ |
| 21 | Plastic Handle Front (SL25C/28C/CR) | R12014070955 | √ | √ |
| Parts not in Diagram | | | | |
| | Assy, Capillary Tube (5MSX20AR) | R50024074209 | √ | √ |
| | Valve, Rev 4 Way SHF-7H-34U(RK) | R05019016937 | √ | √ |
| | Valve, Flare 2Way 1/4" (R410A) | R50054074219 | √ | √ |
| | Valve, Flare 3Way 3/8" (R410A) | R50054074218 | √ | √ |
| | Valve, EXV ZDPF(L) 1.6C-10-RK(E) | R05019024212 | √ | √ |
| | Accumulator, DIA70.2 x OD16 x t1.2 | R02114066381 | √ | √ |

Model : M5MSX 025A/AR



| No | Description | Part Number | Related Model | |
|----|--|--------------|---------------|------------|
| | | | M5MSX 025A | M5MSX025AR |
| 1 | ASSY., BASE PAN (5MSX25/30AR) | R50014081766 | √ | √ |
| 2 | ASSY., COMP. MOUNT. PLATE | R50014081839 | √ | √ |
| 3 | ASSY., CONDENSER COIL | R50024082873 | √ | √ |
| 4 | PANEL, PARTITION | R01014072818 | √ | √ |
| 5 | COMPRESSOR, ASSY 5KD240XAA21 MATSUSHITA | R50049025599 | √ | √ |
| 6 | VALVE, REV 4 WAY SHF-7H-34U(RK) SHANHUA | R05019016937 | √ | √ |
| 7 | ASSY., VALVE BRACKET | R50024082278 | √ | √ |
| 8 | ASSY., FILTER DRIER | R50024082277 | √ | √ |
| 9 | LIQUID RECEIVER, QFQ1.0-B-02 TONG LI | R02119026013 | √ | √ |
| 10 | TUBE, LIQ. REC. TO CONDENSER | R02014082177 | √ | √ |
| 11 | FILTER DRIER, STS2258 KYOSEKI SANGYO | R02169024287 | √ | √ |
| 12 | PANEL RIGHT BACK (SL25C/28C/CR) | R01014070950 | √ | √ |
| 13 | ASSY, CONTROL BOX 5MSX25A | R50044088428 | √ | √ |
| | ASSY, CONTROL BOX 5MSX25AR | R50044083786 | | √ |
| 14 | BRACKET MOTOR (SL25C/28C/CR) | R01014070948 | √ | √ |
| 15 | MOTOR, M5SLX25CR-501-K 94W KUSATSU | R03039024771 | √ | √ |
| 16 | FAN PROPELLER, Ø460 0Z40700 SUNWILL CHIN | R03019023393 | √ | √ |
| 17 | PANEL FRONT / LEFT | R01014070947 | √ | √ |
| 18 | ASSY, PANEL SERVICE | R50014076979 | √ | √ |
| 19 | PANEL TOP (SL20C/25C/28C/CR) | R01014070596 | √ | √ |
| 20 | HANDLING HANDLE SL/MSS | R12014015328 | √ | √ |
| 21 | PLASTIC HANDLE FRONT (SL25C/28C/CR) | R12014070955 | √ | √ |
| 22 | ACCESS PANEL C/W INS SL | R50124017615 | √ | √ |
| 23 | VALVE COVER, MSD/MSH/MST | R12014057544 | √ | √ |
| 24 | THERMISTER HOLDER WM10/15 | R12014016707 | √ | √ |
| 25 | ASSY FRONT GRILLE (SL20C/25C/28C/CR) | R50124072880 | √ | √ |
| | ASSY., CAP TUBE | R50024082874 | √ | √ |
| | COMPRESSOR JACKET (t6mm x 660.0 x 300.0) | R06074082332 | √ | √ |
| | ACCUMULATOR, DIA70.2 x OD16 x t1.2 | R02114066381 | √ | √ |

MODEL : M5MSX 030A/AR



| No. | Description | Part Number | Related Model | |
|-----------------------------|--------------|--|---------------|-------------|
| | | | M5MSX 030AR | M5MSX 030AR |
| 1 | R50014081766 | ASSY., BASE PAN (5MSX25/30AR) | √ | √ |
| 2 | R50014081839 | ASSY., COMP. MOUNT. PLATE | √ | √ |
| 3 | R50024082173 | ASSY., CONDENSER COIL (5MSX30AR) | √ | √ |
| 4 | R01014082178 | PANEL PARTITION | √ | √ |
| 5 | R50049025599 | COMPRESSOR, ASSY 5KD240XAA21 MATSUSHITA | √ | √ |
| 6 | R02114066381 | ACCUMULATOR, DIA70.2 x OD16 x t1.2 | √ | √ |
| | R05019016937 | VALVE, REV 4 WAY SHF-7H-34U(RK) SHANHUA | √ | √ |
| 7 | R50024081869 | ASSY., VALVE BRACKET | √ | √ |
| 8 | R50024088175 | ASSY., FILTER DRIER | √ | √ |
| 9 | R50064088183 | ASSY., LIQUID RECEIVER | √ | √ |
| 10 | R02014088177 | TUBE, LIQ. REC. TO CONDENSER | √ | √ |
| 11 | R02169024287 | FILTER DRIER, STS2258 KYOSEKI SANGYO | √ | √ |
| 12 | R01014070950 | PANEL RIGHT BACK (SL25C/28C/CR) | √ | √ |
| 13 | R50044083787 | ASSY., CONTROL BOX (5MSX30AR) | √ | √ |
| 14 | R01014070948 | BRACKET MOTOR (SL25C/28C/CR) | √ | √ |
| 15 | R03039024771 | MOTOR, M5SLX25CR-501-K 94W KUSATSU | √ | √ |
| 16 | R03019023393 | FAN PROPELLER, Ø460 0Z40700 SUNWILL CHIN | √ | √ |
| 17 | R01014070947 | PANEL FRONT / LEFT | √ | √ |
| 18 | R50014076979 | ASSY, PANEL SERVICE | √ | √ |
| 19 | R01014070596 | PANEL TOP (SL20C/25C/28C/CR) | √ | √ |
| 20 | R12014070955 | PLASTIC HANDLE FRONT (SL25C/28C/CR) | √ | √ |
| 21 | R12014015328 | HANDLING HANDLE SL/MSS | √ | √ |
| 22 | R12014057544 | VALVE COVER, MSD/MSH/MST | √ | √ |
| 23 | R50124072880 | ASSY FRONT GRILLE (SL20C/25C/28C/CR) | √ | √ |
| 24 | R50124017615 | ACCESS PANEL C/W INS SL | √ | √ |
| Parts not in Diagram | | | | |
| | R50024082293 | ASSY., CAP TUBE | √ | √ |
| | R06074082332 | COMPRESSOR JACKET (t6mm x 660.0 x 300.0) | √ | √ |
| | R12014016707 | THERMISTER HOLDER WM10/15 | √ | √ |
| | R04084084668 | CONTROL MODULE, 5MSX30AR-D2PAA | √ | √ |
| | R04084084667 | CONTROL MODULE, BW0060B IPM | √ | √ |
| | R04084084669 | CONTROL MODULE, BW0024B-PFC50AA PFC | √ | √ |

Products manufactured in an ISO certified facility.
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